Publications of the Utah Geological Survey









January 2007

This list supercedes all previous lists for price and availability



Contents

Odds & Ends (older publications reproduced on CD;	Open-File Reports14
non-UGS publications)	Contract Reports19
Bulletins	Utah Geological Association guidebooks19
Water-Resource Bulletins	
Maps	INDEX
Special Studies5	7.5' quadrangle geologic maps, alphabetically 20
Circulars	30' x 60' quadrangle geologic maps, alphabetically. 24
Miscellaneous Publication series	County listing
Public Information series11	Author listing
Reports of Investigation12	Subject listing30

Seven ways to order from THE NATURAL RESOURCES MAP & BOOKSTORE

by phone: 801-537-3320 by toll-free phone: 1-888-UTAH MAP by fax: 801-537-3395 by e-mail:

by hoof:

geostore@utah.gov on our website: http://mapstore.utah.gov 1594 W. North Temple by mail: Salt Lake City, UT 84116

Stop & Shop - open Monday through Friday,

7:30 am to 5:00 pm (except holidays)

Prepayment is requested. We accept MasterCard, Visa, American Express, and Discover. Please make checks payable to Utah Geological Survey.

Signature _

Mastercard/Visa # _____

	QTY	PUBLICATION #	ITEM DESCR	RIPTION			ITEM COST	тот	ALS
Shipping Rates Total pre-tax order amount Shipping* 0 \$ 5.00 \$ 2.50 \$ 5.01 \$ 10.00 \$ 3.50 \$ 10.01 \$ 20.00 \$ 4.50 \$ 20.01 \$ 30.00 \$ 5.50 \$ 30.01 \$ 50.00 \$ 6.50 \$ 50.01 \$ 70.00 \$ 7.50 \$ 70.01 \$ 90.00 \$ 8.50 \$ 90.01 \$ 110.00 \$ 10.50 Add \$2.00 for each additional \$10.00.									
*Rates apply for Domestic U.S. only. Name					Purchase	Sub	total		
Company/Agency					Order #	Utal	h residents 6.6% sales		
Address			State Zip		Check		oping/Handling (tube charge)	\$2	2.00
Mastercard/Visa #			Exp. Date		Charge Card	TO:	TAL		

NATURAL RESOURCES MAP/BOOKSTORE HAS:

U.S. Geological Survey TOPOGRAPHIC MAPS

FULL UTAH COVERAGE
1:24,000 scale \$5.50
1:100,000 scale (BLM edition also) \$6.95
1:250,000 scale \$5.50

UNITED STATES 1:100,000 scale \$6.95

UNITED STATES 1:250,000 scale \$6.00

TOPOGRAPHIC MAPS on CD-ROM

National Geographic

\$99.95

Utah Arizona California Colorado Idaho Montana Nevada New Mexico Wyoming

All Topo

\$84.00 Utah New Mexico \$88.00 Wyoming \$88.00 Idaho \$118.50 Nevada \$80.00 Montana \$98.00 Colorado \$86.00 Arizona \$80.00 Alaska \$110.00 California \$92.00

All Topo is the only commercial product that can be imported in GIS or CAD applications; it can also be used to export royalty-free images.

MULTI-PURPOSE MAPS

BLM Land Status maps Forest Service Maps Off-Road Maps Fishing Maps Hiking Maps

Call the **Bookstore** for coverage and prices 1-888-UTAH MAP 801-537-3320 fax 801-537-3395

e-mail: geostore@utah.gov Web: http://mapstore.utah.gov Mastercard/Visa/AmerXpress accepted

hours: 7:30 am to 5 pm Mon-Fri

ODDS & ENDS

Older UGS publications on CD and outside items

- Great Salt Lake: an overview of change, edited by J. Wallace Gwynn, 584 p. + 16-p. color insert, 6/02, ISBN 1-55791-667-5, DNR Special Publication **\$24.95**
- Southwestern Utah coal fields: Alton, Kaiparowits Plateau and Kolob-Harmony, by H.H. Doelling and R.L. Graham, 333 p., 1972, ISBN 1-55791-000-6. MO-1 \$40.00
- Eastern and northern Utah coal fields: Vernal, Henry Mountains, Sego, La Sal-San Juan, Tabby Mountain, Coalville, Henrys Fork, Goose Creek and Lost Creek, by H.H. Doelling and R.L. Graham, 1972, CD in pdf format (409 p.) MO-2 \$14.95
- Central Utah coal fields: Sevier-Sanpete, Wasatch Plateau, Book Cliffs and Emery, by H.H. Doelling, 1972, CD in pdf format (572 p.) MO-3 **\$14.95**
- Coal reports: Coal drilling at Trail Mountain, North Horn Mountain and Johns Peak areas, Wasatch Plateau, Utah, by F.D. Davis, and H.H. Doelling, 1977, 90 p., 6 pl.; Methane content of Utah coals, by H.H. Doelling, A.D. Smith, and F.D. Davis; Observations on the Sunnyside coal zone, by H.H. Doelling, A.D. Smith, F.D. Davis, and D.L. Hayhurst; Chemical analysis of coal from the Blackhawk Formation, Wasatch Plateau coal field, Carbon, Emery, and Sevier Counties, Utah, by J.R. Hatch, R.H. Affolter, and F.D. Davis; Coal drilling, North Horn Mountain, East Mountain areas, Wasatch Plateau, Utah, by A.D. Smith, 32 p.; Geologic evaluation of a central Utah coal property, Wasatch Plateau, Emery County, Utah, by J.M. Mercier and T.W. Lloyd, 12 p. (B-112, SS-49 and SS-54 reprints) CD in pdf format \$14.95
- County geologic reports: Piute, Garfield (reprints of Bulletins 102 & 107) on CD in pdf format, 6/04 \$14.95
- Tintic special folio, Utah, by George Warren Tower, Jr., 1900 (plus cultural update of 1911 for the Tintic mining district) (Geologic atlas of the United States), 14 p. (pages are 18.5" x 21.7"): USGS folio 65, CD in pdf format \$14.95
- Geologic maps of Utah, 1 x 2-degree (1:250,000), CD in pdf format of older USGS maps \$14.95
- Geologic maps of Utah, 30' x 60ⁱ (1:100,000 scale), CD in pdf format of USGS and UGS maps, OFR-455, 8/05 **\$14.95**
- Geologic map of Utah, 1:250,000, 1963-4, in four parts, CD in pdf format of an out-of-print UGS map \$14.95
- Oil and gas field studies, compiled by Craig D. Morgan, CD in pdf format (80 p., 29 plates) (reprints), Duchesne, South Myton Bench, Bridgeland, Humpback, Cisco Dome, Cisco Wash, Cisco Townsite, PR Springs, Harley Dome, Agate, Danish Wash, Sage, Seiber Nose, Salt Wash, Cane Creek, 8/04, OFR-430 \$14.95
- Liquefaction studies, compiled by Gary Christenson, CD in pdf format (464 p., 81 plates) (reprints), Liquefaction potential maps for: northern Wasatch Front, central Utah, and for Davis, Salt Lake, and Utah Counties, 8/04, OFR-433 \$14.95
- Utah Geology, CD (reprint of all 4 years of the Utah Geological Survey journal, 1170 p., 14 pl.), 9/04 \$14.95
- Survey Notes, CD, 40 years of the Utah Geological Survey newsletter in pdf format, 4 CDs, OFR-447, 4/05 \$25.00
- Utah geological highway map, by L.F. Hintze, 1975, 1:1,000,000, 37" x 24" BYU-3 **\$10.00**
- Geologic history of Utah, a field guide to Utah's rocks, by L.F. Hintze, 1988, 202 p., Brigham Young University SP-7 \$15.00
- Uranium publications of the UGS (reprints of 14 out-of-print items concerning uranium/vanadium), CD (1418 p., 14 pl.), OFR-462, 10/05 \$14.95
- Lead-zinc publications of the UGS (reprints of 6 out-of-print items), CD (620 p., 1 pl.), OFR-464, 10/05 \$14.95

BULLETINS

Bulletins are topically and/or geographically comprehensive in nature, and contain mostly original work. They undergo full UGS review to ensure that they satisfy both scientific and format standards.

- **B-109** *Allosaurus fragilis*: a revised osteology, by J.H. Madsen, Jr., 1976 (reprinted 1993), 163 p., ISBN 1-55791-076-6 **\$9.00**
- B-113 The geology and uranium-vanadium deposits of the San Rafael River mining area, Emery County, Utah, by L.M. Trimble and H.H. Doelling, 1978, 122 p., 4 pl., ISBN 1-55791-080-4
 \$11.00
- B-114 Geology, ore deposits and history of the Big Cottonwood mining district, Salt Lake County, Utah, by L.P. James, 1979, 98 p., 4 pl., ISBN 1-55791-081-2
 \$8.50
- **B-115** Geology and mineral resources of Box Elder County, Utah, by H.H. Doelling, 1980, 251 p., 3 pl., scale 1:125,000, ISBN 1-55791-082-0 **\$20.00**
- B-116 Great Salt Lake; a scientific, historical and economic overview, edited by J.W. Gwynn, 1980, 400 p., 2 pl., ISBN 1-55791-083-9, CD in pdf format
 \$14.95
- **B-118** Proceedings, Fifth Symposium on the geology of Rocky Mountain coal, 1982, edited by K.D. Gurgel, 1982, 319 p., ISBN 1-55791-085-5 **\$20.00**
- **B-119** Petroleum resources of the Paradox Basin, 1984, by K.M. Clem and K.W. Brown, 1984, 162 p, 4 pl., 1:250,000, ISBN 1-55791-086-3 **\$16.50**
- **B-120** Bibliography of Utah coal, 1869 through 1982, by D.A. Foster and A.D. Smith, 1984, 242 p., ISBN 1-55791-087-1 **\$16.50**
- **B-121** Annotated geothermal bibliography of Utah, K.E. Budding, M.H. Bugden, compilers, 1986, 82 p., ISBN 1-55791-088-X **\$5.00**
- B-122 Salt deformation in the Paradox region; 1988, 93 p., ISBN 1-55791-089-8 \$10.45 Geology of Salt Valley anticline and Arches National Park, Grand County, Utah by H.H. Doelling; Evidence for Quaternary deformation in the Salt Valley anticline, southeastern Utah, by C.G. Oviatt; Late Cenozoic gravity tectonic deformation related to the Paradox salts in the Canyonlands area of Utah, by P.W. Huntoon
- B-123 High-temperature geothermal resources of Utah, by D.R. Mabey and K.E. Budding, 1987, 64 p., ISBN 1-55791-090-1 \$7.75
- B-124 The geology of Kane County, Utah; geology, mineral resources, geologic hazards, by H.H. Doelling and F.D. Davis with sections on petroleum and carbon dioxide by C.J. Brandt, 1989, 192 p., 10 pl., 1:100,000, ISBN 1-55791-091-X \$16.50
- B-125 Geology and mineral potential of the Antelope Range mining district, Iron County, Utah, by M.A. Shubat and W.S. McIntosh, 1988, 26 p., 2 pl., ISBN 1-55791-092-8 \$7.25
- **B-126** Engineering geology of the Salt Lake City metropolitan area, Utah, W.R. Lund, editor, 1990, 66 p., ISBN 1-55791-093-6 **\$8.75**
- **B-127** Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization, by Suzanne Hecker, 1993, 157 p., 2 pl., 1:500,000, ISBN 1-55791-094-4 \$17.50
- B-128 Lower Carboniferous echinoderms from northern Utah and western Wyoming, by G.D. Webster, 65 p., 1997
 (Paleontology Series v. 1), ISBN 1-55791-600-4
 \$7.25
- **B-129DF** Digital geologic resources atlas of Utah, compiled by Douglas A. Sprinkel, 1 CD-ROM, 4/99, 1–55791-625-X \$24.95
- B-130 Late Quaternary paleoecology in the Bonneville basin, by

- David B. Madsen, 190 p., 10/2000, ISBN 1-55791-648-9 **\$16.95**
- B-131 Late Mississippian (Arnsbergian Stage E2 Chronozone) ammonoid paleontology and biostratigraphy of the Antler foreland basin, California, Nevada, Utah, by Alan L. Titus, 109 p., 11/2000, ISBN 1-55791-649-7 \$11.95
- B-132 Energy, mineral, and ground-water resources of Carbon and Emery Counties, Utah, by R.W. Gloyn, D.E. Tabet, B.T. Tripp, C.E. Bishop, C.D. Morgan, J.W. Gwynn, and R.E. Blackett, 161 p., 14 pl., scale 1:750,000, 1/03, ISBN 1-55791-679-9
 \$15.95
- **B-133** Geology of Millard County, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, 305 p., ISBN 1-55791-692-6, 9/03 \$24.00
- B-134 Consensus preferred recurrence-interval and vertical slip-rate estimates: review of Utah paleoseismic-trenching data by the Utah Quaternary Fault Parameters Working Group, by William R. Lund, CD (109 p.), ISBN 1-55791-727-2, 6/05 \$19.95

WATER-RESOURCE BULLETINS

Water-Resource Bulletins are identical to Bulletins on a waterrelated subject. **Series discontinued**

- **Water-Resource Bulletins 1-25** of the UGS, OFR-465, CD (1066 p., 26 pl.), 10/05 **\$14.95**
- WRB-26 The geology of the central Virgin River basin, southwestern Utah, and its relation to ground-water conditions, by H.A. Hurlow, 53 p., 7 pl., 1:48,000 and 1:100,000, 5/98, ISBN 1-55791-614-4 \$14.95
- WRB-27 Analysis of septic-tank density for three areas in Cedar Valley, Iron County, Utah - a case study for evaluations of proposed subdivisions in Cedar Valley, by Mike Lowe, Janae Wallace, and Charles E. Bishop, 66 p., ISBN 1-55791-650-0, 12/2000 \$10.95
- WRB-28 The geology of the Snyderville basin, western Summit County, Utah, and its relation to ground-water conditions, by Francis X. Ashland, Charles E. Bishop, Mike Lowe, and Bea H. Mayes, 59 p., 15 pl., scale 1:48,000, 6/01, ISBN 1-55791-652-7 \$19.95
- WRB-29 The geology of the Kamas-Coalville region, Summit County, Utah, and its relation to ground-water conditions, by Hugh A. Hurlow, 55 p., 14 pl., 3/02, ISBN1-55791-656-X \$21.95

MAPS

Maps undergo full UGS review process to ensure that they satisfy both scientific and format standards. The series includes original and compiled geologic, economic-resource, ground-water, and geologic hazard maps.

- **M-A-1** Geologic map of Utah, compiler L.F. Hintze, scale 1:500,000, 2 sheets, 1980, ISBN 1-55791-400-1 **\$15.00**
- M-12 Geologic map of Cache County, Utah, by J.S. Williams, approx. scale 1:125,000, 1958 (part of Bulletin 64), ISBN 1-55791-410-9 \$2.50
- M-14 Geologic map of Washington County, by E.F. Cook, approx. scale 1:130,000, 1960 (supplement to Bulletin 70), ISBN 1-55791-412-5\$1.00
- M-16 Geologic map of Uintah County, Utah, by G.E. Untermann B.R. Untermann, and D.M. Kinney, 2 pl. approx. scale 1:125,000, 1964, ISBN 1-55791-414-1 \$5.00

The *Map series* includes geologic quadrangle maps in color at a scale of 1:24,000 or 1:100,000. The series also includes other kinds of maps (geologic, economic, applied, etc.) and at other scales.

Maps at 1:24,000 (7.5-minute quadrangles) are listed separately in alphabetic order. See **Map List on page 20**..

- **M-20** Relief map of Utah, scale 1:1,000,000, 1965, ISBN 1-55791-418-4 **\$1.00**
- M-28 Ground magnetic survey and abstract of the Fountain Green-Moroni area, Sanpete County, Utah, by R.T. Shuey, approx. scale 1:84,000, 1969, ISBN 1-55791-426-5 \$1.00
- M-34 Geologic map of the Marysvale region, Piute County and parts of adjoining counties, Utah, by E. Callaghan, approx. scale 1:125,000, 1973, ISBN 1-55791-432-X \$5.00
- M-37 Simple Bouguer gravity anomaly map of Utah, by K.L. Cook, J.R. Montgomery, J.T. Smith, and E.F. Gray, scale 1:1,000,000, 1975, ISBN 1-55791-435-4 \$2.00
- **M-43** Physiographic subdivisions of Utah, by W.L. Stokes, 8½ x 11, 1977, ISBN 1-55791-441-9 **\$1.00**
- M-47 Oil-impregnated rock deposits of Utah, by H.R. Ritzma, scale 1:1,000,000, two plates, 1979, ISBN 1-55791-445-1 \$5.00/set
- M-49 Geology of Big Cottonwood mining district, compiled by M.D. Crittenden Jr., F.C. Calkins, B.J. Sharp, A.A. Baker, and C.S. Bromfield - modified by L.P. James, scale 1:24,000, 1978 \$3.00
- M-50 Active oil shale operations of the eastern Uinta Basin, by H.R. Ritzma, 1980, 1:250,000, ISBN 1-55791-448-6
 \$2.50
- **M-52** Topographic map of Provo and vicinity, scale 1:100,000, 1978 **\$2.50**
- M-53A Geologic map of the northern Wasatch Front, Utah, compiler F.D. Davis, scale 1:100,000, 2 plates, 1985, ISBN 1-55791-451-6 \$7.00
- M-53B Surface-water resources of the northern Wasatch Front, Utah, by D. Price and L.J. Jensen, scale 1:100,000, two plates, 1983, ISBN 1-55791-452-4 \$7.00
- M-54A Geologic map of the central Wasatch Front, Utah, complied by F.D. Davis, scale 1:100,000, 2 plates, 1983, ISBN 1-55791-453-2 \$7.00
- M-54B Surface-water resources of the central Wasatch Front, Utah, by D. Price and L.J. Jensen, scale 1:100,000, two plates, 1983, ISBN 1-55791-454-0 \$7.00
- **M-54C** Ground-water resources of the central Wasatch Front area, Utah, by D. Price, 1:100,000, 5 p., 3 pl., 1988, ISBN 1-55791-455-9 **\$7.00**
- M-54D Mineral resources of the central Wasatch Front, compiled by F.D. Davis, (Petroleum potential by J.A. Campbell)
 1:100,000, 24 p., 2 pl., 1985, ISBN 1-55791-456-7
 \$7.00
- M-55A Geologic map of the southern Wasatch Front, Utah, compiled by F.D. Davis, scale 1:100,000, 2 plates, 1983, ISBN 1-55791-457-5 \$7.00
- M-55B Surface-water resources of the southern Wasatch Front, Utah, by D. Price and L.J. Jensen, 2 pl., scale 1:100,000, 1983, ISBN 1-55791-458-3 \$7.00
- **M-55C** Ground-water resources of the southern Wasatch Front, Utah, by D. Price and L. Conroy, 1:100;000, 6 p., 3 pl., 1988, ISBN 1-55791-459-1 **\$7.00**
- M-55D Mineral resources of the southern Wasatch Front, Utah, compiled by F.D. Davis with a section on petroleum by F.C. Moulton and R.L. Kerns Jr. 1:100,000, 17 p., 2 pl., 1988, ISBN 1-55791-460-5 \$7.00

- M-56 see Fairview Lakes Quad in MAP LIST \$6.00

 M-57 Geology and mineral resources of Box Elder County,

 Utah (from Bulletin 115) by H.H. Doelling 1:125 000 3
 - Utah, (from Bulletin 115), by H.H. Doelling, 1:125,000, 3 pl., 1980, ISBN 1-55791-462-1 **\$10.00**
- M-58 see Laketown Quad in MAP LIST \$7.50
- M-59 Complete Bouguer gravity anomaly and generalized geology map of Richfield 1° x 2° quadrangle, Utah, by K.L. Cook, J.I. Adhidjaja, and S.C. Gabbert, scale 1:250,000, 1981, ISBN 1-55791-464-8 \$7.00
- M-61 Oil and gas fields and pipelines of Utah, including the thrust belt area of southwestern Wyoming, by K. W. Brown and H. R. Ritzma, scale 1:750,000, 1982, ISBN 1-55791-466-4 \$7.00
- M-65 Land control and coal reserves of the Kaiparowits Plateau, Alton, and east half Kolob coal fields, Utah, compiled by S.N. Sommer, H.H. Doelling, and A.D. Smith, scale 1:31,680, 1982, two plates (available separately for \$5.00 each), ISBN 1-55791-469-9 \$10.00/set
- M-67 see Joes Valley Reservoir in MAP LIST \$7.50

 M-68 Energy resources map of Utah, compiled by the UGS
- scale 1:500,000, 1983, ISBN 1-55791-472-9 **\$1.00**
- M-69 see Thistle in MAP LIST \$2.50

 M-71 Non-metallic mineral resources of Utah. by H.H. Doelling.
- **M-71** Non-metallic mineral resources of Utah, by H.H. Doelling, scale 1:750,000, 1983, ISBN 1-55791-475-3 **\$7.00**
- M-72 see Pine Canyon in MAP LIST \$7.50
- M-73 Major levels of Great Salt Lake and Lake Bonneville, by D.R. Currey, G. Atwood, and D. Mabey, 1 pl., scale 1:750,000, 1984, ISBN 1-55791-477-X \$7.00
- M-74 Geologic map of Arches National Park and vicinity, Grand County, Utah, by H.H. Doelling, scale 1:50,000, 1985, 15 p., 1 pl., ISBN 1-55791-478-8\$7.00
- M-76 see Deadman Canyon in MAP LIST \$7.50 M-77 see Tecoma in MAP LIST \$7.00 M-78 see Lucin in MAP LIST \$7.00 M-79 see Limekiln Knoll in MAP LIST \$4.00 M-80 see Circleville Mountain in MAP LIST \$7.00 M-81 see Fremont Pass in MAP LIST \$7.00 M-82 see Circleville in MAP LIST \$7.00 M-83 see Salina in MAP LIST \$7.00 M-84 see Pinon Point in MAP LIST \$7.00

\$7.00

M-87 Geologic map of Capitol Reef National Park and vicinity, Utah, (Garfield, San Juan Cos.) by G. Billingsley, P.W. Huntoon, and W.J. Breed, 5 pl., scale 1:62,500, 1987, ISBN 1-55791-490-7 \$10.00

M-85 see Beryl Junction in MAP LIST

- M-88 see Honeyville in MAP LIST \$7.00 M-89 see Sego Canyon in MAP LIST \$7.00 M-90 see Mt. Ellen in MAP LIST \$7.00 M-91 see Cutler Dam in MAP LIST \$7.00 M-93 see Lucin 4 NW in MAP LIST \$7.00 M-94 see Pigeon Mountain in MAP LIST \$7.00 M-95 see Jackson in MAP LIST \$7.00 M-96 see Lemay Island in MAP LIST \$7.00
- M-98 see Hells Kitchen Canyon SE in MAP LIST
 M-99 Geologic map of the St. George Basin, Utah, (Washington Co.) compiled by K.E. Budding and S.N. Sommer, 1:100,000, 1986 (plate 1 of Spec. Study 67)
 \$2.00
- M-103 see Panguitch NW in MAP LIST \$7.00
 M-104 see Little Creek Peak in MAP LIST \$7.00
 M-105 see Marysvale in MAP LIST \$7.00
 M-106 see Antelope Range in MAP LIST \$7.00
 M-107 see Howell in MAP LIST \$7.00
 M-108 see Silver Peak in MAP LIST \$7.00
 M-109 see Thatcher Mountain in MAP LIST \$7.00
- M-110 Shallow ground water and related hazards in Utah, compiled by Suzanne Hecker and K.M. Harty, scale 1:750,000, 19 p., 1 pl., 1988, ISBN 1-55791-512-1 \$4.00

		M 450 NW . MAR LIOT	A-
M-111 Flood hazards from lakes and failures of dams in		M-158 see Lucin NW in MAP LIST	\$7.00
by K.M. Harty and G.E. Christenson, 1:750,000, 8	3 p., 1	M-159 see Sterling in MAP LIST	\$7.00
pl., 1988, ISBN 1-55791-513-X \$7.00		M-160 see Pilot Peak in MAP LIST	\$7.00
M-112 see Aurora in MAP LIST	\$7.00	M-161 Quaternary geologic map of the Old River Bed	
M-113 see Porcupine Reservoir in MAP LIST	\$7.00	vicinity, Millard, Juab, and Tooele Counties, Uta	
M-114 see Geyser Peak in MAP LIST	\$7.00	Oviatt, D. Sack, and T.J. Felger, 24 p., 1 pl., 1:6	52,500,
M-115 see Roger Peak in MAP LIST	\$7.00	1994, ISBN 1-55791-563-6 \$7.00	
M-116 see Escalante in MAP LIST	\$7.00	M-162 see Coyote Knolls in MAP LIST	\$7.00
M-117 see Red Breaks in MAP LIST	\$7.00	M-163 see Swasey Peak NW in MAP LIST	\$7.00
M-118 see Tenmile Flat in MAP LIST	\$7.00	M-164 see Scipio Pass in MAP LIST	\$7.00
M-119 see King Bench in MAP LIST	\$7.00	M-165 see McCornick in MAP LIST	\$7.00
M-120 see Calf Creek in MAP LIST	\$7.00	M-166 see Grayback Hills in MAP LIST	\$7.00
M-121 The geology of Kane County, Utah, geology, mine		M-167 see Hildale in MAP LIST	\$7.00
resources, geologic hazards, by H.H. Doelling and		M-168 see Agate in MAP LIST	\$7.75
Davis, 1:100,000, (see Bulletin 124) 10 pl., 1989,		M-169 see Dewey in MAP LIST	\$7.25
55791-523-7 \$10.00	_	M-170 Surficial geologic map of the Nephi segment of	
M-122 Complete Bouguer gravity anomaly map of Utah,	by K I	Wasatch fault zone, eastern Juab County, Utah	
Cook, V. Bankey, D.R. Mabey, and M. DePanghe		Harty, W.E. Mulvey, and M.N. Machette, 14 p.,	•
1:500,000, 1989, ISBN 1-55791-524-5 \$7.00	т, гр,	1:50,000, 1997, ISBN 1-55791-572-5 \$7.00	· p,
M-123 see Calico Peak in MAP LIST	\$7.00	M-171 see Big Bend in MAP LIST	7.95
M-124 Quaternary geologic map of Tule Valley, west-cer	•	M-172 Surficial geologic map of the West Cache faul	
		nearby faults, Box Elder and Cache Counties, U	
Utah, by Dorothy Sack, 26 p., 1 pl., 1:100,000, 19	190,		
ISBN 1-55791-526-1 \$7.00	¢7.00	Barry J. Solomon, 20 p., 2 pl., 1:50,000, 3/99 IS	DDIN I-
M-125 see Boulder Mountain in MAP LIST	\$7.00	55791-574-1 \$7.95	¢0.05
M-126 see Elephant Butte in MAP LIST	\$7.00	M-173 See Brigham City in MAP LIST	\$8.85
M-127 Geologic map of Antelope Island, Davis County, L		M-174 Map of recharge and discharge areas for the p	
H.H. Doelling, G.C. Willis, M.E. Jensen, S. Hecke		valley-fill aquifer, Sanpete Valley, Sanpete Cou	
Case, and J.S. Hand, 27 p., 2 pl., scale 1:24,000,	1990,	by Noah P. Snyder and Mike Lowe, 21 p., 1 pl.,	
ISBN 1-55791-529-6 \$11.00		1:125,000, 10/98, ISBN 1-55791-619-5 \$9.95	
M-128 see Crater Island in MAP LIST	\$7.00	M-175 Map of recharge and discharge areas for the p	-
M-129 see Crater Island SW in MAP LIST	\$7.00	valley-fill aquifer, Sevier Desert, Millard County	
M-130 see Lucin 4 SW in MAP LIST	\$7.00	N.P. Snyder, 21 p., 1 pl., 1:175,000, 10/98, ISB	N 1-
M-131 see Mount Escalante in MAP LIST	\$7.00	55791-620-9 \$9.95	
M-132 see Juab in MAP LIST	\$7.00	M-176 Map of recharge areas for the principal valley-	
M-132 see Juab in MAP LIST M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh		Ogden Valley, Weber County, Utah, by N.P. Sr	yder and
		Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1	yder and
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh		Ogden Valley, Weber County, Utah, by N.P. Sn Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95	yder and 55791-
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00	eets,	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95 M-177 see Midvale in MAP LIST	yder and 55791- \$8.00
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST	eets, \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST	yder and 55791- \$8.00 \$8.50
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST	\$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95 M-177 see Midvale in MAP LIST	yder and 55791- \$8.00 \$8.50
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST	\$8.00 \$8.50 \$8.50 \$8.50
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1- 621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz	\$8.00 \$8.50 \$8.50 \$8.50
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of	\$8.00 \$8.50 e.e. G.C. n, 1 CD-
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95	\$8.00 \$8.50 e.e. G.C. n, 1 CD-
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brow ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brow ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brow ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brow ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery y Hellmut 1-55791-
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brow ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut 1-55791- art of the
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut 1-55791- ort of the
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut 1-55791- ort of the d and rado, by
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-138 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colorado	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut 1-55791- ort of the d and rado, by
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D.	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS	\$8.00 \$8.50 se, G.C. n, 1 CD- of the San d Emery y Hellmut 1-55791- ort of the d and rado, by
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-556	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and Irado, by BN 1-
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 Black,	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST	\$8.00 \$8.50 te, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x
M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele (\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and rado, by BN 1- \$11.00 th 30' 'x
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains No	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and Irado, by BN 1- \$11.00 Ith 30' 'x O' of Beaver
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, b H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60 quadrangle, southwest Millard County and part	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and Irado, by BN 1- \$11.00 Ith 30' 'x O' of Beaver
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele (Utah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST 	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, bh H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60 quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and Irado, by BN 1- \$11.00 Ith 30' 'x O' of Beaver
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele (Utah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST 	\$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90	\$8.00 \$8.50 \$e, G.C. n, 1 CD- If the San If Emery If Hellmut 1-55791- Int of the Id and Irado, by BN 1- \$11.00 If Beaver pl. scale \$11.00
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, by H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90 M-183 see Fisher Towers in MAP LIST	\$8.00 \$8.50 e, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x of Beaver pl. scale \$11.00 e and
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-154 see Sunset Pass in MAP LIST 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, both. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colothellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Noth 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90 M-183 see Fisher Towers in MAP LIST M-184 Geologic map of the Delta 30' x 60' quadrangle	\$8.00 \$8.50 e, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x of Beaver pl. scale \$11.00 e and east
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-154 see Sunset Pass in MAP LIST M-155 see Gold Bar Canyon in MAP LIST 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, both. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colothellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Noth 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90 M-183 see Fisher Towers in MAP LIST M-184 Geologic map of the Delta 30' x 60' quadrangle, north	\$8.00 \$8.50 e, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x of Beaver pl. scale \$11.00 e and east Sevier
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 \$7.00 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele 0 Utah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-155 see Gold Bar Canyon in MAP LIST M-156 Quaternary geologic map of the Upper Weber Riv 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, bh. H. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colo Hellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Not 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90 M-183 see Fisher Towers in MAP LIST M-184 Geologic map of the Delta 30' x 60' quadrangle, north Millard County and parts of Juab, Sanpete, and	\$8.00 \$8.50 e, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x of Beaver pl. scale \$11.00 e and east Sevier is, 2 pl.
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele 0 Utah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-154 see Sunset Pass in MAP LIST M-155 see Gold Bar Canyon in MAP LIST M-156 Quaternary geologic map of the Upper Weber Riv drainage, Summit County, Utah, by C.G. Oviatt, 1 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, both. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part San Rafael Desert 30' x 60' quadrangles, Grand Emery Counties, Utah, and Mesa County, Colothellmut H. Doelling, 2002, 1 CD-ROM, 2/02, IS 55791-581-4 \$24.95 M-181 see Moab 7.5' in MAP LIST M-182 Geologic map of the Wah Wah Mountains Noth 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part County, Utah, Lehi F. Hintze and F.D. Davis, 2 1:100,000, 6/02, ISBN 1-55791-584-9 \$8.90 M-183 see Fisher Towers in MAP LIST M-184 Geologic map of the Delta 30' x 60' quadrangle, north Millard County and parts of Juab, Sanpete, and Counties, Utah, by Lehi F. Hintze and F.D. Davi	\$8.00 \$8.50 e, G.C. n, 1 CD- f the San d Emery y Hellmut 1-55791- art of the d and rado, by BN 1- \$11.00 th 30' 'x of Beaver pl. scale \$11.00 e and east Sevier is, 2 pl.
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh. 1:500,000, 1991, ISBN 1-55791-535-0 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-554 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele Outah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-154 see Sunset Pass in MAP LIST M-155 see Gold Bar Canyon in MAP LIST M-156 Quaternary geologic map of the Upper Weber Riv drainage, Summit County, Utah, by C.G. Oviatt, 1 pl., 1:50,000, 1994, ISBN 1-55791-558-X \$7.00 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, both. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part	syder and 55791- \$8.00 \$8.50 See, G.C. In, 1 CD- If the San Id Emery y Hellmut In-55791- Int of the Id and Irado, by BN 1- \$11.00 Ith 30' 'x 'y 'of Beaver pl. scale \$11.00 Ith and I
 M-133 Landslide map of Utah, by K.M. Harty, 28 p., 2 sh 1:500,000, 1991, ISBN 1-55791-535-0 M-134 see Fountain Green North in MAP LIST M-135 see Levan in MAP LIST M-136 see Lampo Junction in MAP LIST M-137 see Nephi in MAP LIST M-138 see Redmond Canyon in MAP LIST M-139 see Gunnison in MAP LIST M-140 see Gold Hill in MAP LIST M-141 see Long Ridge in MAP LIST M-142 see Red Knolls in MAP LIST M-143 see Smithfield in MAP LIST M-144 see Patterson Pass in MAP LIST M-145 see Crater Island NW in MAP LIST M-146 see Blue Mountain in MAP LIST M-147 see The Barracks in MAP LIST M-148 see Smelter Knolls West in MAP LIST M-149 The radon-hazard-potential map of Utah, by B.D. 12 p., 1 pl., 1:1,000,000, 1993, ISBN 1-55791-551 \$4.00 M-150 Quaternary geologic map of Skull Valley, Tooele 0 Utah, by Dorothy Sack, 16 p., 1 pl., 1:100,000, 19 ISBN 1-55791-552-0 \$7.00 M-151 see Bear River City in MAP LIST M-152 see Hatch Mesa in MAP LIST M-153 see Shivwits in MAP LIST M-154 see Sunset Pass in MAP LIST M-155 see Gold Bar Canyon in MAP LIST M-156 Quaternary geologic map of the Upper Weber Riv drainage, Summit County, Utah, by C.G. Oviatt, 1 	\$7.00 \$7.00	Ogden Valley, Weber County, Utah, by N.P. Sr Mike Lowe, 16 p., 1 pl., 1:75,000, 8/98, ISBN 1-621-7 \$9.95 M-177 see Midvale in MAP LIST M-178 see Merrimac Butte in MAP LIST M-179DM Digital geologic map of Utah, by L.F. Hintz Willis, D.Y. Laes, D.A. Sprinkel, and K.D. Brown ROM, 2000 ISBN 1-55791-577-6 \$19.95 M-180 Geologic map of the Moab and eastern part of Rafael Desert 30' x 60' quadrangles, Grand and Counties, Utah, and Mesa County, Colorado, both. Doelling, 3 pl., scale 1:100,000, 8/01, ISBN 579-2 \$29.50 M-180DM Geologic map of the Moab and eastern part	syder and 55791- \$8.00 \$8.50 See, G.C. In, 1 CD- If the San Id Emery by Hellmut In-55791- Int of the Id and Irado, by BN 1- \$11.00 Inth 30' 'x 'x 'y' of Beaver pl. scale \$11.00 In and east Sevier is, 2 pl. 8.90 \$10.49 Idrangle

30 x 60 quadrangles, north	west Millard County, Utah, by
L.F. Hintze and F.D. Davis,	2 pl., 1:100,000, ISBN 1-
55791-586-5, 10/02 \$8.9	0

M-187 see Hurricane in Map List \$13.70
M-188 see Manti 7.5' in Map List \$9.45

M-189DM Geologic map of the Nephi 30' x 60' quadrangle, Carbon, Emery, Juab, Sanpete, Utah and Wasatch Counties, Utah, by I.J. Witkind and M.P. Weiss, 1991 (digital version 2002), scale 1:100,000 (digitized from U.S. Geological Survey Miscellaneous Investigations Map I-1937), CD-ROM, 11/02, ISBN 1-55791-589-X \$24.95

M-190DM Geologic map of the Salt Lake City 30' x 60' quadrangle, north-central Utah and Uinta County, Wyoming, by Bruce Bryant, 1990 (digital version 2003), scale 1:100,000 (digitized from U.S. Geological Survey Miscellaneous Investigations Map I-1944), CD-ROM, 1/03. ISBN 1-55791-590-3 \$24.95

M-191 See Harrisburg Junction in MAP LIST \$11.30
M-192 See Center Creek in MAP LIST \$11.30

M-193DM Quaternary fault and fold database and map of Utah, by Bill D. Black, Suzanne Hecker, Michael D. Hylland, Gary E. Christenson, and Greg N. McDonald, CD-ROM, scale 1:500,000, ISBN 1-55791-593-8, 2/03 \$24.95

M-194 See Clarkston and Portage in MAP LIST \$13.50

M-195 Geologic map of the Richfield 30' x 60' quadrangle, southeast Millard County and parts of Beaver, Piute, and Sevier Counties, Utah, by Lehi F. Hintze, Fitzhugh D. Davis, Peter D. Rowley, Charles G. Cunningham, Thomas A. Steven, and Grant C. Willis, 2 pl., 1: 100,000, ISBN 1-55791-595-4, 10/03 \$8.90

M-196 See Pintura in MAP LIST **\$10.50**M-197 See The Divide in MAP LIST **\$11.95**

M-198DM Geologic map of the Price 30' x 60' quadrangle, Carbon, Duchesne, Uintah, Utah, and Wasatch Counties, Utah, by M.P. Weiss, I.J. Witkind, and W.B. Cashion, 1990 (digital release 2003), CD, [CD contains GIS data], 1:100,000, 12/03 \$24.95

M-199 See Navajo Lake in MAP LIST \$8.50
M-200 See Ogden in MAP LIST \$12.00

M-201 See Saratoga Springs in MAP LIST (with M-202) \$11.95 M-202 See Cedar Fort in MAP LIST (with M-201) \$11.95

M-203DM Oil and gas fields of Utah, by Thomas C. Chidsey, Jr., Sharon Wakefield, Bradley G. Hill, and Michael Hebertson, CD (1 pl., scale 1:700,000), 7/04, ISBN 1-55791-709-4
\$24.95 (paper plot available for \$19.95)
[CD contains GIS data][updated to February 2005]

M-204 See Little Creek Mountain in MAP LIST \$9.95

M-205 Geologic map of the La Sal 30' x 60' quadrangle, San Juan, Wayne, and Garfield Counties, Utah, and Montrose and San Miguel Counties, Colorado, by Hellmut H. Doelling, 2 pl. scale 1:100,000, ISBN 1-55791-711-6, 10/04 \$10.50

M-205DM Geologic Map of the La Sal 30' x 60' Quadrangle, San Juan, Wayne, and Garfield Counties, Utah, and Montrose and SanMiguel Counties, Colorado, Utah, by H.H. Doelling, (2 pl., 1:100,000, CD [contains GIS data]), ISBN 1-55791-752-3, 9/06, \$24.95

M-206DM Geologic map of the Delta 30' x 60' quadrangle and part of the Lynndyl 30' x 60' quadrangle, northeast Millard County and parts of Juab, Sanpete, and Sevier Counties, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, CD (1:100,000), 6/05, ISBN 1-55791-731-0, [CD contains GIS data] **\$19.95**

M-207DM Geologic map of the Wah Wah Mountains North 30' x 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part of Beaver County, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, CD (2 pl., scale 1:100,000)[CD contains GIS data], ISBN 1-55791-713-2, 9/04 \$19.95

M-208 See Jordan Narrows in MAP LIST \$10.00

M-208DM Geologic map of the Jordan Narrows quadrangle, Salt Lake and Utah Counties, Utah, by Robert F. Biek, CD (2 pl., 1:24,000 [contains GIS data]), ISBN 1-55791-746-9, 7/06 \$19.95

 M-209
 See Washington Dome in MAP LIST
 \$10.95

 M-210
 See Lehi in MAP LIST
 \$10.00

 M-210DM See Lehi in MAP LIST
 \$19.95

M-211DM Geologic map of the Lynndyl 30' x 60' quadrangle, west-central Utah. 2005, digitized from USGS Miscellaneous Investigations Map I-1830 by E.H. Pampeyan, 1:100,000, 1989, CD [CD contains GIS data], ISBN 1-55791-712-4, 6/05 \$19.95

M-213 Geologic map of the Smoky Mountain 30' x 60' quadrangle, Kane and San Juan Counties, Utah and Coconino County, Arizona, by Hellmut H. Doelling and Grant C. Willis, 2 pl., 1:100,000, ISBN 1-55791-732-9, 5/06 \$11.95

M-214 See Tickville Spring in MAP LIST \$12.00

M-215DM Uranium and vanadium map of Utah, by Robert W. Gloyn, Roger L. Bon, Sharon Wakefield, and Ken Krahulec, CD (1 plate 1:750,000), ISBN 1-55791-734-5, 7/05 [CD contains GIS data] \$24.95

M-218 Recharge and discharge areas for the principal basin-fill aquifer, Curlew Valley, Box Elder County, Utah, by Stefan M. Kirby, Jason L. Kneedy, and Mike Lowe, CD (17 pg., 1 pl. 1:100,000), 11/05 \$19.95

M-222DM Geologic map of the Tule Valley 30' x 60' quadrangle and part of the Ely, Fish Springs, and Kern Mountains 30' x 60' quadrangles, northeast Millard County, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, scale 1:100,000 (CD [contains GIS data]), ISBN 1-55791-744-2 \$19.95

M-226DM Coal resource map of Utah, by David Tabet and Sharon Wakefield, CD (1 plate 1:750,000), ISBN 1-55791-750-7, 5/06 \$24.95

SPECIAL STUDIES

A Special Study is relatively restricted in subject matter. It undergoes full UGS review process to ensure that it satisfies both scientific and format standards.

- SS-42 Geology and diatremes of Desert Mountain, Utah (Juab Co.), by D.C. Rees, M.P. Erickson, J.A. Whelan, 1973, 12 p., 1 pl., ISBN 1-55791-161-4 Photocopy
- SS-51 Geology for assessment of seismic risk in the Tooele and Rush Valleys, Tooele County, Utah, by B.L. Everitt and B.N. Kaliser, 1980, 33 p., 5 pl., ISBN 1-55791-170-3 \$10.00
- SS-53 Geology of the fluorite occurrences, Spor Mountain,
 Juab County, Utah, by K.C. Bullock 1981, 31 p., ISBN 1-55791-172-X \$3.25
- SS-55 Muddy Creek coal drilling project, Wasatch Plateau, Utah, by A.D. Smith, 1981, 57 p., ISBN 1-55791-174-6 \$8.25
- SS-57 Geology, ore deposits and mineralogy of the Rocky Range, near Milford, Beaver County, Utah, by J.A. Whelan, 1982, 35 p., ISBN 1-55791-176-2 \$8.25
- SS-59 Geologic excursions in the Overthrust Belt and metamorphic core complexes of the Intermountain Region, Geological Society of America guidebook Part I, edited by K.D. Gurgel, 1983, 160 p., ISBN 1-55791-178-9 \$11.00 Geology of the Albion-Raft River-Grouse Creek Mountains area, northwestern Utah and southern Idaho, by

- D.M. Miller et al.; Mesozoic and early Tertiary structure and sedimentology of the central Wasatch Mountains, Uinta Mountains, and Uinta Basin, by R.L. Bruhn et al.; Style of mid-Tertiary extension in east-central Nevada, by P.B. Gans and E.L. Miller
- SS-61 Geologic excursions in volcanology: eastern Snake River Plain (Idaho) and southwestern Utah, Geological Society of America guidebook Part III, edited by K.D. Gurgel, 1983, 55 p., ISBN 1-55791-180-0 \$6.50 Holocene basaltic volcanism along the Great Rift, central and eastern Snake River Plain, Idaho, by M.A. Kuntz et al.; Mid-Tertiary history of the central Pioche-Marysvale igneous belt, southwestern Utah, by M.G. Best and J.D. Keith
- **SS-62** Geologic excursions in neotectonics and engineering geology in Utah, Geological Society of America guidebook - Part IV, edited by K.D. Gurgel, 1983, 109 p., ISBN 1-55791-181-9 **\$11.00** Paleoseismicity along the Wasatch Front and adjacent areas, central Utah, by A.J. Crone; Paleoseismic investigations along the Wasatch fault zone; an update, by D.P. Schwartz et al.; Amount of displacement and estimated age of a Holocene surface faulting event, eastern Great Basin, Millard County, Utah, by A.J. Crone; Late Cenozoic faulting in Heber and Keetley Valleys, northeastern Utah, by J.T. Sullivan and A.R. Nelson; Lake Bonneville stratigraphy, geomorphology, and isostatic deformation in west-central Utah, by D.R. Currey et al.; Geologic aspects of upper Stillwater damsite Bonneville Unit, Central Utah Project, Utah, by J.L. Rogers; Engineering geologic problems along Utah's urban corridor, by B.N. Kaliser
- SS-63 Geothermal assessment of a portion of the Escalante Valley, Utah, (Beaver, Iron Cos.) by R.H. Klauk and C. Gourley, 1983, 57 p., ISBN 1-55791-182-7 \$11.00
- SS-64 Contributions to Quaternary geology of the Colorado Plateau (San Juan Co.) by G.E. Christenson, C.G. Oviatt, J.F. Shroder and R.E. Sewell, 1985, 85 p., ISBN 1-55791-183-5 \$5.50 Quaternary geology of the Montezuma Creek Lower Recapture Creek area, San Juan County, Utah, by G.E. Christenson; Late Quaternary geomorphic changes along the San Juan River and its tributaries near Bluff, Utah, by C.G. Oviatt; Mass movement in the La Sal Mountains, Utah, by J.F. Shroder and R.E. Sewell
- SS-65 Economic potential of the P.R. Spring oil-impregnated deposit, Uinta Basin, Utah, (Grand, Uintah Cos.) by K. Clem, 1984, 35 p., ISBN 1-55791-184-3 \$8.25
- SS-66 Engineering geology of Park City, Summit County, Utah, by H.E. Gill and W.R. Lund, 1984, 42 p., ISBN 1-55791-185-1 \$5.50
- SS-67 Low-temperature geothermal assessment of the Santa Clara and Virgin River Valleys, Washington County, Utah, by K.E. Budding and S.N. Sommer, 1986, 34 p., 1 pl., 1:100,000, ISBN 1-55791-186-X \$3.25
- SS-68 Engineering geologic case studies in Utah, 1986, edited by W.R. Lund, 1987, 94 p., ISBN 1-55791-187-8 \$5.50
- SS-69 Contributions to economic geology in Utah 1986, 39 p., 1987, ISBN 1-55791-188-6 \$4.50 Roof geology and coal seam characteristics of the No. 3 Mine, Hardscrabble Canyon, Carbon County, Utah, by M.D. Bunnell; Petrology and geochemistry of the O.K. Copper-Molybdenum deposit, Beaver County, Utah, by T.W. Taylor
- SS-70 Quaternary geology of part of the Sevier Desert, Millard County, Utah, by C.G. Oviatt, 41 p., 1 pl., scale 1:100,000, 1989, ISBN 1-55791-189-4 \$8.25
- SS-72 Geologic evaluation of wastewater disposal in bedrock, Duchesne County, Utah, by W.E. Mulvey and W.R. Lund, 20 p., 3 pl., scale 1:100,000, 1990, ISBN 1-55791-191-6 \$7.50
- SS-73 Quaternary geology of the Black Rock Desert, Millard County, Utah, by C.G. Oviatt, 1991, 23 p., 1 pl., 1:100,000 ISBN 1-55791-192-4 \$6.50
- SS-74 Analysis and regional implication of cleat and joint systems in selected coal seams, Carbon, Emery, Sanpete, Sevier, and Summit Counties, Utah, by Brigitte Hucka, 47 p., 2 pl., 1" = 3¼ miles, 1991, ISBN 1-55791-193-2 \$6.50
- **SS-75** Paleoseismology of Utah, Volume 1: Fault behavior and

- earthquake recurrence on the Provo segment of the Wasatch fault zone at Mapleton, Utah County, Utah, by W.R. Lund. D.P. Schwartz, W.E. Mulvey, K.E. Budding, and B.D. Black, 1991, 41 p., ISBN 1-55791-194-0 \$7.75
- SS-76 Paleoseismology of Utah Volume 2: Paleoseismic analysis of the Wasatch fault zone at the Brigham City trench site, Brigham City, Utah and the Pole Patch trench site, Pleasant View, Utah by S.F. Personius, 39 p., 1991, ISBN 1-55791-195-9 \$6.50
- **SS-77** Quaternary geology of Fish Springs Flat, Juab County, Utah, by C.G. Oviatt, 16 p., 1 pl., 1:50,000, 1991, ISBN 1-55791-196-7 **\$6.50**
- SS-78 Paleoseismology of Utah, Volume 3: The number and timing of paleoseismic events on the Nephi and Levan segments, Wasatch fault zone, Utah, by Michael Jackson, 23 p., 3 pl., 1991 ISBN 1-55791-197-5 \$6.50
- SS-79 Quaternary geology of the Scipio Valley area, Millard and Juab Counties, Utah, by C.G. Oviatt, 16 p., 1 pl., 1:62,500, 1992, ISBN 1-55791-198-3 \$6.50
- **SS-80** Soil and rock causing engineering geologic problems in Utah, by W.E. Mulvey, 23 p., 2 pl., 1:500,000, 1992 **\$9.00**
- SS-81 A case study of the Newcastle geothermal system, Iron County, Utah, by R.E. Blackett and M.A. Shubat, 30 p., 2 pl., 1:24,000, 1992, ISBN 1-55791-200-9 \$6.00
- SS-82 Paleoseismology of Utah Volume 4: Seismotectonics of north-central Utah and southwestern Wyoming, by M.W. West, 93 p., 5 pl., 1:100,000, 1994, ISBN 1-55791-201-7 \$16.50
- SS-83 Paleoseismology of Utah, Volume 5: Neotectonic deformation along the East Cache fault zone, Cache County, Utah by J.P. McCalpin, 37 p., 1994, ISBN 1-55791-202-5
 \$5.50
- SS-84 The quartzite building stone industry of the Raft River and Grouse Creek Mountains, Box Elder County, Utah, by B.T. Tripp, 19 p., 1994, ISBN 1-55791-203-3 \$5.50
- SS-85 Radon-hazard-potential areas in Sandy, Salt Lake County, and Provo, Utah County, Utah, by B.J. Solomon, B.D. Black, D.L. Nielson, D.L. Finerfrock, J.D. Hultquist, and Cui Linpei, 49 p., 1994, ISBN 1-55791-204-1 \$6.50
- SS-86 Mineral, energy, and ground-water resources of San Juan County, Utah by R.W. Gloyn, C.D. Morgan, D.E. Tabet, R.E. Blackett, B.T. Tripp, and M. Lowe, 39 p., (18.5" x 15.5"), 1995, ISBN 1-55791-205-X \$11.00
- SS-87 Radon-hazard potential of the southern St. George basin, Washington County, and Ogden Valley, Weber County, Utah, by B.J. Solomon, 42 p., 1995, ISBN 1-55791-369-2
 \$6.50
- SS-88 Paleoseismology of Utah Volume 6: The Oquirrh fault zone, Tooele County, Utah: surficial geology and paleoseismicity, W.R. Lund, editor, 64 p., 2 pl., 1:24,000, 1996, ISBN 1-55791-370-6 \$15.95 Surficial geology of the Oquirrh fault zone, Tooele County, Utah, by B.J. Solomon; Paleoseismic investigation of the Oquirrh fault zone, Tooele County, Utah, by S.S. Olig, W.R. Lund, B.D. Black, and B.H. Mayes
- SS-89 Radon-hazard potential of the central Sevier Valley, Sevier County, Utah, by B.J. Solomon, 48 p., 1996, ISBN 1-55791-374-9 \$6.00
- SS-90 Radon-hazard potential of the lower Weber River area, Tooele Valley, and southeastern Cache Valley, Cache, Davis, Tooele, and Weber Counties, Utah, by B.D. Black and B.J. Solomon, 56 p., 1 pl., 1:50,000 and 1:100,000, 1996, ISBN 1-55791-379-X \$6.50
- **SS-91** Radon-hazard potential of western Salt Lake Valley, Salt Lake County, Utah, by B.D. Black, 1996, 27 p., 1

- pl., 1:50,000, ISBN 1-55791-398-6 **\$6.50**
- SS-92 Paleoseismology of Utah, Volume 7: Paleoseismic investigation on the Salt Lake City segment of the Wasatch fault zone at the South Fork Dry Creek and Dry Gulch sites, Salt Lake County, Utah, by B.D. Black, W.R. Lund, D.P. Schwartz, H.E. Gill, and B.H. Mayes, 1996, 22 p., 1 pl., 1-55791-399-4 \$5.75
- SS-93 Paleoseismology of Utah, Volume 8: Paleoseismic investigation at Rock Canyon, Provo segment, Wasatch fault zone, Utah County, Utah, by W.R. Lund and B.D. Black, 21 p., 2 pl., 3/98, ISBN 1-55791-613-6 \$8.75
- SS-94 Radon-hazard potential of Beaver basin area, Beaver County, Utah, by Charles E. Bishop, 39 p., 8/98, ISBN 1-55791-616-0 \$8.25
- SS-95 Characteristics, timing, and hazard potential of liquefaction-induced landsliding in the Farmington Siding landslide complex, Davis County, Utah, by Michael D. Hylland and Mike Lowe, 38 p., 8/98, ISBN 1-55791-622-5 \$8.25
- SS-96 Geology and geologic hazards of Tooele Valley and the West Desert Hazardous Industry Area, Tooele County, Utah, by Bill D. Black, Barry J. Solomon, and Kimm M. Harty, 65 p., 6 pl., scale 1:100,000, 12/99, ISBN 1-55791-633-0 \$14.00
- SS-97 Redefining the Lower Cretaceous stratigraphy within the central Utah foreland basin by Douglas A. Sprinkel, Malcolm P. Weiss, Robert W. Fleming, and Gerald L.. Waanders, 21 p., 11/99, ISBN 1-55791-643-8 \$6.00
- SS-98 Paleoseismology of Utah Volume 9: Paleoseismic investigation of the Clarkston, Junction Hills, and Wellsville faults, West Cache fault zone, Cache County, Utah by B.D. Black, R.E. Giraud, and B.H. Mayes, 23 p., 1 pl., 3/00, ISBN 1-55791-646-2 \$10.50
- SS-99 Paleontological survey of the Grand Staircase-Escalante National Monument, Garfield and Kane Counties, Utah, by John R. Foster, Alan L. Titus, Gustav F. Winterfeld, Martha C. Hayden, and Alden H. Hamblin, 98 p., 4/01, ISBN 1-55791-653-5 \$13.00
- SS-100 Evaluation of potential geologic sources of nitrate contamination in ground water, Cedar Valley, Iron County, Utah with emphasis on the Enoch area, by Mike Lowe and Janae Wallace, 50 p., 1 pl., 1:48,000, 8/01. ISBN 1-55791-660-8 \$9.95
- SS-101 Ground-water quality classification and recommended septic tank soil-absorption-system density maps, Cache Valley, Cache County, Utah, by Mike Lowe, Janae Wallace, and Charles E. Bishop, CD-ROM (31 p., 10 pl., scale 1:100,000), ISBN 1-55791-686-1, 3/03 \$14.95
- SS-102 Water-quality assessment and mapping for the principal valley-fill aquifer in Sanpete Valley, Sanpete County, Utah, by Mike Lowe, Janae Wallace, and Charles E. Bishop, CD (91 p., 13 pl., 1:100.000), 12/02 \$19.95
- SS-103 The geology of Cedar Valley, Iron County, Utah, and its relation to ground-water conditions, by Hugh A. Hurlow, CD (74 p., 2 pl., 1:100,000), 9/02 \$14.95
- **SS-104** Geologic evaluation and hazard potential of liquefaction-induced landslides along the Wasatch Front, Utah, by Kimm M. Harty and Mike Lowe, 40 p., 16 pl., ISBN 1-55791-687-X, 3/03 **\$12.95**
- SS-105 Characteristics , causes, and implications of the 1998
 Wasatch Front landslides, by Francis X. Ashland, 49
 p., ISBN 1-55791-689-6, 3/03 \$8.00
- SS-106 The Bluebell oil field, Uinta Basin, Duchesne and Uintah Counties, Utah: Characterization and oil well demonstration, edited by Craig D. Morgan, 95 p., ISBN 1-55791-690-X, 3/03 \$13.75
- SS-107 Geologic hazards of Moab-Spanish Valley, Grand

- County, Utah, by Michael D. Hylland and William E. Mulvey, digital compilation by Justin P. Johnson and Matt Butler, 25 p. + 1 CD, ISBN 1-55791-697-7, 8/03 \$12.95
- SS-108 Recharge area and geologic controls for the Courthouse Wash-Sevenmile Spring system, western Arches National Park, Grand County, Utah, by Hugh A. Hurlow and Charles E. Bishop, 1 CD-ROM (55 p., 3 pl. 1:24,000 approximate scale), ISBN 1-55791-698-5, 12/03 \$14.95
- SS-109 The geology of Cedar Valley, Utah County, and its relation to ground-water conditions, by Hugh A. Hurlow, 4/04, CD (74 p., 4 pl., 1:100,000), ISBN 1-55791-701-9, 2004 \$19.95
- SS-110 Geologic hazards of Monroe City, Sevier County, Utah, by Richard E. Giraud, digital compilation by Justin P. Johnson, ISBN 1-55791-703-5, 51 p + CD [CD contains GIS data], 5/04 \$13.95
- SS-111DM Earthquake-hazards scenario for a M7 earthquake on the Salt Lake City segment of the Wasatch fault zone, Utah, by Barry J. Solomon, Neil Storey, Ivan Wong, Walter Silva, Nick Gregor, Douglas Wright, and Greg McDonald, CD (59 p., 6 pl. scale 1:250.000), 5/04, ISBN 1-55791-704-3 \$24.95 [CD contains GIS data]
- SS-112 The available coal resource for eight 7.5-minute quadrangles in the southern Emery Coalfield, Emery and Sevier Counties, Utah, by Jeffrey C. Quick, David E. Tabet, Brigitte P. Hucka, and Sharon I. Wakefield, 37 p., ISBN 1-55791-705-1, 5/04 \$7.75
- SS-113 Ground-water quality classification and recommended septic tank soil-absorption-system density maps, Castle Valley, Grand County, Utah, by Mike Lowe, Janae Wallace, Charles E. Bishop, and Hugh A. Hurlow, CD (22p + 30 p appen, 7 pl at 1:15,000 & 1:30,000), ISBN 1-55791-714-0, 7/04 \$19.95
- SS-114 The available coal resource for nine 7.5-minute quadrangles in the southern Wasatch Plateau Coalfield, Emery, Sanpete, and Sevier Counties, Utah, by Jeffrey C. Quick, David E. Tabet, Brigitte P. Hucka, and Sharon I. Wakefield, CD (41 p.), ISBN 1-55791-728-0, 8/05 \$19.95 (on-demand print (\$9.95)
- SS-115 The origin and extent of earth fissures in Escalante Valley, southern Escalante Desert, Iron County, Utah, by William R. Lund, Christopher B. DuRoss, Stefan M. Kirby, Greg N. McDonald, Gary Hunt, and Garrett S. Vice, CD (30 p., 37-photo appendix), ISBN 1-55791-730-2, 8/05 \$19.95
- SS-116 High-calcium limestone resources of Utah, by Bryce T. Tripp, 84 p. (includes 1 pl. 1:750,000 and CD [contains GIS data]), 9/05, ISBN 1-55791-736-1 \$15.95
- SS-117 Wetlands in Tooele Valley, Utah An evaluation of threats posed by ground-water development and drought, by Neil Burk, Charles Bishop, and Mike Lowe, CD (37 p., 1 pl., 1:40,000), ISBN 1-55791-743-4, 12/05 \$19.95
- SS-118 The available coal resource for eight 7.5-minute quadrangles in the Alton Coalfield, Kane County, Utah, by Roger L. Bon, Jeffrey C. Quick, Sharon I. Wakefield, Brigette P. Hucka, and David E. Tabet, CD (23 p.), ISBN 1-55791-757-4, 10/06 \$19.95
- SS-119 Paleoseismic investigation and long-term slip history of the Hurricane fault in southwestern Utah, by William R. Lund, Michael J. Hozik, and Stanley C. Hatfield, CD (81 p.), ISBN 1-55791-760-4 \$11.00

CIRCULARS

Circulars address timely subjects with limited long-term value.

- **C-47** Gold placers in Utah, compiled by UGMS staff, 1966, 29 p., ISBN 1-55791-252-1 **Photocopy \$4.00**
- C-63 Rockhound guide to mineral and fossil localities in Utah,
 1979, compiled by C.H. Stowe, 1979, 79 p., ISBN 1 55791-268-8 Photocopy \$6.50
- C-79 Suggested approach to geologic hazards ordinances in Utah, by G.E. Christenson; 1987, 16 p., ISBN 1-55791-284-X \$3.25
- **C-81** Radon hazards in Utah, by D.A. Sprinkel and B.J. Solomon, 1990, 24 p., ISBN 1-55791-286-6 **\$3.75**
- **C-82** The industrial rock and mineral industry in Utah 1990, by B.T. Tripp, 1991, 31 p., ISBN 1-55791-287-4 **\$5.50**
- C-83 Summary of oil and gas drilling in Utah 1989, by T.C. Chidsey and M.D. Laine, 1991, 31 p., ISBN 1-55791-288-2 \$5.50
- C-86 Oil and gas drilling in Utah, 1990, by T.C. Chidsey Jr.,
 C.D. Morgan, and M.D. Laine, 30 p., 1994, ISBN 1-55791-291-2 \$5.00
- C-87 Resistivities and chemical analyses of selected oil and gas field, water well, and spring waters, Utah, by J.W. Gwynn, 1995, 142 p., ISBN 1-55791-292-0 \$10.50
- C-88 The September 2, 1992 ML 5.8 St. George earthquake, Washington County, Utah edited by G.E. Christenson, 41 p., 1995, ISBN 1-55791-367-6 \$7.75
- C-89 Guide to authors of geologic maps and text booklets of the Utah Geological Survey, by H.H. Doelling and G.C. Willis, 98 p., 1995, ISBN 1-55791-368-4 \$8.75
- C-90DF Bluebell field drill-hole database, Duchesne and Uintah Counties, Utah by C.D. Morgan, D.A. Sprinkel, and K.A. Waite, 23 p., 1 diskette, 1995, updated to April, 1999 ISBN 1-55791-371-4 \$6.50
- **C-91** Utah mineral activity summary for 1995, by R.L. Bon, R.W. Gloyn, and D.E. Tabet, 15 p., 1996, ISBN 1-55791-377-3 **\$5.00**
- C-92 Guidelines for evaluating landslide hazards in Utah, edited by M.D. Hylland, 16 p., 1996, ISBN 1-55791-392-
- C-93 A preliminary assessment of energy and mineral resources within the Grand Staircase-Escalante National Monument, compiled by M.L. Allison, 36 p., 1/97, ISBN 1-55791-601-2 **Photocopy \$4.95**
- C-94 Petrographic and physical characteristics of Utah coals, by B.P. Hucka, S.N. Sommer, and D.E. Tabet, 80 p., 1 disk, 1997, ISBN 1-55791-602-0 \$7.75
- C-95 A preliminary assessment of archeological resources within the Grand Staircase-Escalante National Monument, Utah by D.B. Madsen, 23 p., 3/97, ISBN 1-55791-605-5 \$3.25
- C-96 A preliminary assessment of paleontological resources within the Grand Staircase-Escalante National Monument, Utah by D.D. Gillette and M.C. Hayden, 34 p., 3/97, ISBN 1-55791-606-3 \$4.50
- C-97 Effect of geothermal drawdown on sustainable development, Newcastle area, Iron County, Utah, by R.E. Blackett, H.P. Ross, and C.B. Forster, 31 p., 8/97, ISBN 1-55791-609-8 \$5.50
- C-98 1996 summary of mineral activity in Utah, by R.L. Bon, R.W. Gloyn, and D.E. Tabet, 12 p., 8/97, ISBN 1-55791-610-1 \$3.75
- C-99 A summary of the ground-water resources and geohydrology of Grand County, Utah, by Chris Eisinger and Mike Lowe, 28 p., 6/99, ISBN 1-55791- 626-8 \$6.00
- **C-100** The available coal resources for the nine 7.5-minute

- quadrangles in the northern Wasatch Plateau Coalfield, Carbon and Emery Counties, Utah, by D.E. Tabet, J.C. Quick, B.P. Hucka, and J.A. Hanson, 46 p., 8/99 ISBN 1-55791-627-6 **\$9.50**
- C-101 Preliminary hydrogeologic framework characterization ground-water resources along the western side of the northern Wasatch Range, eastern Box Elder County, Utah, by Hugh A. Hurlow, 50 p., 10/99, ISBN 1-55791-632-2 \$8.75
- C-102 Guidelines for preparing hydrogeologic and soil reports addressing suitability for alternative wastewater disposal systems in Weber County, Utah, by Mike Lowe and Darwin Sorensen, 10 p., 10/99, ISBN 1-55791-642-X \$3.95

MISCELLANEOUS PUBLICATIONS

The *Miscellaneous Publication* series is the principal publication format available to non-UGS authors. They do not necessarily conform to UGS editorial or format standards. Publications in this category require two author-arranged expert peer reviews, but otherwise receive little additional UGS review

- **MP-E** Scenes of the plateau lands and how they came to be, by W.L. Stokes, 1962, 66 p. **\$2.00**
- MP-J The Great Salt Lake, Utah, by W.L. Stokes, 30 p., 1984 \$4.50
- MP-M Guidelines for preparing engineering geologic reports in Utah, by Utah Section of the Association of Engineering Geologists; 2 p., 1986 FREE
- **MP-Q** Geology and Grand County by H.H. Doelling and others, 16 p., 1987, ISBN 1-55791-376-5 **\$1.75**
- **MP-S** Geology of Utah, by W.L. Stokes, 317 pages, 1986, ISBN 0-940378-05-1 **\$15.00**
- MP-87-2 Mineral fuels and associated energy resources, by M.R. Smith, fold-out, 1987, ISBN 1-55791-294-7
- **MP-87-4** Industrial commodities: Non-metallic resources of Utah, M.R. Smith, fold-out, 1987, ISBN 1-55791-295-5 **\$0.50**
- MP-87-8 Gold prospecting in Utah, by M. R. Smith, 2 p. (reprinted from Survey Notes, August, 1981) FREE
- MP-88-1 In the footsteps of G.K. Gilbert Lake Bonneville and neotectonics of the eastern Basin and Range Province, guidebook for GSA annual meeting, edited by M.N. Machette, 1988, 120 p., ISBN 1-55791-298-X Pdf format on CD \$14.95
- MP-88-2 Geology and Antelope Island State Park, Utah, by H.H. Doelling and others, 20 p., 1988, ISBN 1-55791-299-8 \$3.00
- MP-88-3 Geologic consequences of the 1983 wet year in Utah by B.N. Kaliser and J.E. Slossen, 109 p., 1988, ISBN 1-55791-300-5 \$10.50
- MP-89-1 Evaluation of seismicity relevant to the proposed siting of a superconducting supercollider (SSC) in Tooele County, Utah, by W.J. Arabasz, J.C. Pechman, and E.D. Brown, 107 p, 1989 ISBN 1-55791-301-3 \$8.50
- MP-89-2 An evaluation of the travel distance potential of debris flows, by S.H. Cannon, 35 p., 1989, ISBN 1-55791-302-1 \$4.50
- MP-89-3 Geologic resources of Box Elder County, Utah, by S.N. Eldredge, M.H. Bugden, and C.M. Wilkerson, 28 p., color brochure, 1989, ISBN 1-55791-303-X \$3.25
- MP-89-4 Water-related geologic problems of 1983 Utah

- occurrences by county, by B.N. Kaliser, 24 p., 1989, ISBN 1-55791-304-8 **\$3.75**
- MP-89-5 Multi-characteristic correlation of upper Cretaceous volcanic ash beds from southwestern Utah to central Colorado, by B.J. Kowallis, E.H. Christensen, and A. Deino, 22 p., 9/89, ISBN 1-55791-305-6 \$4.25
- MP-89-6 Quaternary faults, folds, and selected volcanic features in the Cedar City 1° x 2° quadrangle, Utah by R.E. Anderson and G.E. Christenson, 29 p., 2 pl., 1:250,000, 1989, ISBN 1-55791-306-4 \$5.50
- MP-89-7 Dating methods applicable to Quaternary geologic studies in the western United States, edited by S.L. Forman, 80 p., 12/89, ISBN 1-55791-307-2 \$7.50
- MP-90-1 Collapsible soil hazard map for the southern Wasatch Front, Utah, by R.L. Owens and K.M. Rollins, 38 p., 3 pl., scale 1:48,000, 4/90, ISBN 1-55791-308-0 \$7.50
- MP-90-2 Stratigraphy and paleogeography of Late Cretaceous and Paleogene rocks of southwest Utah, by P.M.
 Goldstrand, 58 p., 1990, ISBN 1-55791-309-9 \$6.50
- MP-91-1 A guide to reducing losses from future earthquakes in Utah - Consensus document, W.J. Arabasz, ed., 30 p., 4/91, ISBN 1-55791-310-2 \$5.50
- MP-91-2 Characteristics of acid-sulfate alteration in the Marysvale-Pioche mineral belt: a guide to gold mineralization, by A.J.B. Thompson, 29 p., 4/91, ISBN 1-55791-311-0 \$5.50
- MP-91-3 Soils as a tool for applied Quaternary geology, by P.W. Birkeland, M.N. Machette, K.M. Haller, 63 p., 4/91, ISBN 1-55791-312-9 \$7.00
- MP-91-4 Wood Ranch thermal anomaly, Iron County, Utah, by H.P. Ross, R.E. Blackett, and M.A. Shubat, 28 p., 6/91, ISBN 1-55791-313-7 \$6.00
- MP-91-5 Petrology, age, geochemistry, and correlation of the Tertiary volcanic rocks of the Awapa Plateau, Garfield, Piute, and Wayne Counties, Utah, by S.R. Mattox, 46 p., 1 pl., 1:100,000, 6/91, ISBN 1-55791-314-5 \$6.75
- MP-91-6 Deltaic and shelf deposits in the Cretaceous Black-hawk Formation and Mancos Shale, Grand County, Utah, by M.A. Chan, S.L. Newman; Palynology of Emery Sandstone equivalent strata in the eastern Book Cliffs, by F.E. May, 83 p., 2 pl., approx. scale 1" = 4950', 8/1991, ISBN 1-55791-315-3 \$10.00
- MP-91-7 Petrology, sedimentology, and stratigraphic implications of the Rock Canyon Conglomerate, southwestern Utah, by R. LaRell Nielson, 65 p., August 1991, ISBN 1-55791-316-1 \$6.50
- **MP-92-1** Geologic tours of northern Utah, by S.K. Morgan, 98 p., 2/1992, ISBN 1-55791-317-X **\$6.50**
- MP-92-2 New ⁴⁰Ar/³⁹Ar ages of intrusive rocks from the Henry and La Sal Mountains, Utah, by S.T. Nelson, M.T. Heizler, and J.P. Davidson, 24 p., 4/92, ISBN 1-55791-318-8 \$5.50
- MP-92-3 Field guide to geologic excursions in Utah and adjacent areas of Nevada, Idaho, and Wyoming, G.S.A. field guide, Rocky Mountain Section, J.R. Wilson editor, 481 p., 4/1992, ISBN 1-55791-319-6 \$16.95
- MP-93-1 Stratigraphic and lithologic analysis of the Claron Formation in southwestern Utah, by W.J. Taylor, 52 p., 4/93, ISBN 1-55791-320-X \$6.50
- MP-93-2 The Markagunt megabreccia: large Miocene gravity slides mantling the northern Markagunt Plateau, southwestern Utah, by J.J. Anderson, 37 p., April 1993, ISBN 1-55791-321-8
 \$5.50
- MP-93-4 Damage potential index mapping for Salt Lake Valley, Utah, by S.M. Adan and K.M. Rollins, 64 p., April 1993, ISBN 1-55791-323-4 \$6.50
- MP-93-5 Characterization of argillic alteration and K/Ar dating of illite at the Mercur gold mine. Utah: further evidence for

- a Mesozoic age of gold mineralization, by P.N. Wilson and W.T. Parry, 26 p., 4/93, ISBN 1-55791-324-2 **\$5.50**
- MP-93-6 A geologic tour through Wasatch Mountain State Park, by J.B. Willis and G.C. Willis, 66 p. + 8-page color insert, December 1994, ISBN 1-55791-325-0 \$8.50
- MP-93-8 Tectonic evolution of the Uinta Mountains: palinspastic restoration of a structural cross section along longitude 109°15', Utah by D.S. Stone, 19 p., 3 pl., 1:96,000 and 1:192,000, 8/93, ISBN 1-55791-326-9 \$6.60
- MP-93-9 Site-specific strong ground motion estimates for the Salt Lake Valley, by I.G. Wong and W.J. Silva, 34 p., November 1993, ISBN 1-55791-327-7 \$6.00
- MP-95-1 see Fountain Green South in MAP LIST \$7.00 MP-95-2 see New Harmony in MAP LIST \$7.00
- MP-95-3 see Richmond in MAP LIST \$7.00
- MP-95-4 A collector's guide to rock, mineral & fossil localities of Utah by J.R. Wilson, 148 p. + color insert, 1995, ISBN 1-55791-336-6\$9.95 (\$11.95 for spiral bound)
- MP-96-1 see Logan in MAP LIST \$7.00
- MP-96-2 Outcrop study of the lower Green River Formation for reservoir characterization and hydrocarbon production enhancement in the Altamont-Bluebell field, Uinta Basin, Utah, by A. Garner and T.H. Morris, 61 p., 1996, ISBN 1-55791-384-6 \$6.50
- MP-97-1 see Bear Lake South in MAP LIST
 MP-97-2 see Sheeppen Creek in MAP LIST
 MP-97-3 see Hayes Canyon in MAP LIST
 \$7.00
- MP-97-4 The Prairie Canyon Member, a new unit of the Upper Cretaceous Mancos Shale, west-central Colorado and east-central Utah, by R.D. Cole, R.G. Young, and G.C. Willis, 23 p., 5/97, ISBN 1-55791-603-9 \$4.00
- MP-97-5 see Hatch in MAP LIST \$7.00
- MP-98-1 Geology of the Sheeprock thrust sheet, central Utah new insights by Malay Mukul and Gautam Mitra, 56 p., 4/98 ISBN 1-55791-615-2 \$8.50
- MP-98-2 Proceedings volume, Basin and Range Province Seismic-Hazards Summit, edited by William R. Lund, 204 p., 12/98, ISBN 1-55791-623-3 \$16.00
- **MP-99-1** Vertebrate paleontology in Utah, David D. Gillette, editor, 553 p., 8/99, ISBN 1-55791-634-9 **\$19.95**
- MP-99-2 see Wales in MAP LIST
 \$9.60

 MP-99-3 see Picture Rock Hills in MAP LIST
 \$7.50

 MP-99-4 see Keg Pass in MAP LIST
 \$7.50

 MP-99-5 see Keg Mtn Ranch in MAP LIST
 \$8.75
- MP-99-6 Minerals of the Utahlite Claim, Lucin, Box Elder
 County, Utah, by Joe Marty, D.G. Howard, and Henry
 Barwood, 13 p., 11/99, ISBN 1-55791-639-X \$1.95
- MP-00-1 The Geology of Antelope Island, Davis County, Utah, Jon K. King and Grant C. Willis, editors, 163 p., 9/00, ISBN 1-55791-647-0 \$13.95
- MP-00-2 Ceratosaurus (Dinosauria, Theropoda), a revised osteology, by James H. Madsen Jr., and Samuel P. Welles, 80 p., 4/00, ISBN 1-55791-380-3 \$11.95
- MP-01-1 see Smithsonian Butte in MAP LIST \$10.95
- MP-01-2 Proceedings of the 35th Forum on the Geology of Industrial Minerals - The Intermountain West Forum 1999, edited by Roger L. Bon, Richard F. Riordan, Bryce T. Tripp, and Stanley T. Krukowski, 286 p., 7/01, ISBN 1-55791-654-3 \$29.95
- MP-01-3 see Podunk Creek in Map List \$8.95
 MP-01-4 see Alton in Map List \$9.65
 MP-01-5 see Moroni Peak in Map List \$6.00
- MP-02-1 Surface and subsurface correlation of the Green River Formation in central Nine Mile Canyon, SW Uinta basin, Carbon and Duchesne Counties, eastcentral Utah, by David Keighley, Steve Flint, John

- Howell, Daniel Anders- son, Stephen Collins, Andrea Moscariello, and Greg Stone, CD (66 p.), 2/02, ISBN 1-55791-664-0 **\$14.95**
- MP-02-2 see Terrace Mountain E in MAP LIST \$9.00 MP-02-3 see Terrace Mountain W in MAP LIST \$9.00
- MP-02-4 Mutituberculate mammals from the Wahweap (Campanian, Aquilan) and Kaiparowits (Campanian, Judithian) Formations within and near Grand Staircase-Escalante National Monument, southern Utah, by Jeffrey G. Eaton, 66 p., 7/02, ISBN 1-55791-665-9 \$12.00
- MP-02-5 Earthquake scenario and probabilistic ground shaking maps for the Salt Lake City, Utah, metropolitan area, by Ivan Wong, Walter Silva, Susan Olig, Patricia Thomas, Douglas Wright, Francis Ashland, Nick Gregor, James Pechmann, Mark Dober, Gary Christenson, and Robyn Gerth, 50 p. + CD-ROM, 6/02, ISBN 1-55791-666-7 \$25.00
- MP-02-6 Geological and petrophysical characterization of the Ferron Sandstone for 3-D simulation of a fluvial-deltaic reservoir, edited by Thomas C. Chidsey, Jr., 2/02, 1 CD-ROM (462 p.), ISBN 1-55791-668-3 \$14.95
- MP-02-7 Paleoseismology of Utah Volume 10: Post-Bonneville paleoearthquake chronology of the Salt Lake City segment, Wasatch fault zone, from the 1999 "megatrench" site, by James P. McCalpin, 5/02, 37 p., ISBN 1-55791-670-5 \$15.95
- MP-02-8 Ground-water sensitivity and vulnerability to pesticides, Cache Valley, Cache County, Utah, by Ivan D. Sanderson and Mike Lowe, 28 p., 2 pl. scale 1:100,000, 6/02, ISBN 1-55791-669-1
 \$12.45
- MP-02-9 Paleoseismology of Utah Volume 11: Post-Provo paleoearthquake chronology of the Brigham City segment, Wasatch fault zone, Utah, by James P.
 McCalpin and Steven L. Forman, 46 p., 5/02, ISBN 1-55791-671-3 \$11.95
- MP-02-10 Ground-water sensitivity and vulnerability to pesticides, Utah and Goshen Valleys, Utah County, Utah, by Ivan D. Sanderson, Mike Lowe, Janae Wallace, and Jason L. Kneedy, 26 p., 2 pl., scale 1:100,000, 10/02, ISBN 1-55791-678-0 \$12.45
- MP-02-11 Deterministic maximum peak bedrock acceleration maps for Utah, by M.W. Halling, J.R. Keaton, L.R. Anderson, and W. Kohler, 8/02, 57 p., 1 CD-ROM, ISBN 1-55791-676-4 \$20.95
- MP-03-1 Ground-water sensitivity and vulnerability to pesticides, the southern Sevier Desert and Pahvant Valley, Millard County, Utah, by Mike Lowe and Ivan D. Sanderson, 28 p., 2 pl., scale 1" = 6 miles, ISBN 1-55791-684-5, 2/03 \$12.45
- MP-03-2 see Sage Valley in MAP LIST \$13.00
- MP-03-3 Ground-water sensitivity and vulnerability to pesticides in Utah, by Mike Lowe, Janae Wallace, Hugh A. Hurlow, Ivan D. Sanderson, and Matt Butler, CD (40 p., 2 pl., 1:750,000), ISBN 1-55791-693-4, 8/03 \$14.95
- MP-03-4 Paleoseismology of Utah Volume 12: Neotectonics of Bear Lake Valley, Utah and Idaho; a preliminary assessment, by James P. McCalpin, 43 p., ISBN 1-55791-694-2, 12/03 \$11.00
- MP-03-5 Ground-water sensitivity and vulnerability to pesticides, Heber and Round Valleys, Wasatch County, Utah, by Mike Lowe and Matt Butler, CD-ROM (23 p., 2 pl., 1:50,000), ISBN 1-55791-695-0, 8/03 \$14.95
- MP-03-6 Guidelines for evaluating surface-fault-rupture hazards in Utah, by Gary E. Christenson, L. Darlene Batatian, and Craig V Nelson, 14 p., 8/03, ISBN 1-55791-696-9 \$5.50
- MP-03-7 Guide for the preparation of reports for the Utah
 Geological Survey, by Michael D. Hylland and William
 R. Lund, 68 p., ISBN 1-55791-699-3, 12/03 \$9.00
- MP-04-1 Ground-water sensitivity and vulnerability to pesticides.

- East Shore area of Great Salt Lake, Davis and Weber Counties, Utah, by Mike Lowe, Janae Wallace, and Matt Butler, 2004, CD-ROM (28 p., 2 pl. 1:75,000), ISBN 1-55791-700-0, 2/04 \$14.95
- MP-04-2 Descriptions, petrology, photographs, and photomicrographs of core from the Green River Formation, south-central Uinta Basin, Utah, by S. Robert Bereskin, Craig D. Morgan, and Kevin P. McClure, CD-ROM (203 p.), 4/04, ISBN 1-55791-702-7 \$19.95
- MP-04-3 Ground-water sensitivity and vulnerability to pesticides, Tooele Valley, Tooele County, Utah, by Mike Lowe, Janae Wallace, Matt Butler, Rich Riding, and Anne Johnson, CD (23 p., 2 pl., 1: 65,000), ISBN 1-55791-715-9, 8/04 \$19.95
- MP-04-4 Ground-water sensitivity and vulnerability to pesticides, Morgan Valley, Morgan County, Utah, by Mike Lowe, Janae Wallace, Neil Burk, Matt Butler, Anne Johnson, and Rich Riding, CD (23 p., 2 pl. 1:87,000), ISBN 1-55791-716-7, 11/04 \$19.95
- MP-05-1 Ground-water sensitivity and vulnerability to pesticides, eastern Box Elder County, Utah, by Mike Lowe, Janae Wallace, Neil Burk, Matt Butler, Anne Johnson, and Rich Riding, CD (24 p., 2 pl., 1:120,000), 1/05 \$19.95
- MP-05-2 Proceedings volume, Basin and Range Province Seismic-Hazards Summit II, edited by William R. Lund, CD (20 papers, 64 abstracts, 10 posters), ISBN 1-55791-725-6, 5/05 \$19.95
- MP-05-3 See Roy in Map List \$10.00 MP-05-4 See Clearfield in Map List \$10.00
- **MP-05-5** Selected mining districts of Utah, by Carl L. Ege, 59 p., ISBN 1-55791-726-4, 6/05 **\$11.49**
- **MP-05-6** Guidelines for the geologic evaluation of debris-flow hazards on alluvial fans in Utah, by Richard E. Giraud, 16 p., 6/05, ISBN 1-55791-729-9 **\$6.00**
- MP-05-7 Ground-water sensitivity and vulnerability to pesticides, Salt Lake Valley, Salt Lake County, Utah, by Mike Lowe, Janae Wallace, Neil Burk, Justin Johnson, Anne Johnson, and Rich Riding, CD (24 p., 2 pl., 1:120,000), ISBN 1-55791-733-7, 7/05 \$19.95
- MP-05-8 Holocene earthquake history of the northern Weber segment of the Wasatch fault zone, Utah, by Alan R. Nelson, Mike Lowe, Stephen Personius, Lee-Ann Bradley, Steven L. Forman, Robert Klauk, and John Garr, CD (39 p., 2 pl.), ISBN 1-55791-741-8, 8/06 \$14.95
- MP-05-9 Landslide investigation of Timber Lakes Estates, Wasatch County, Utah: Landslide inventory and preliminary geotechnical-engineering slope stability analysis, by Daniel P. Neuffer and Ronald L. Bruhn, CD (65 p., 4 pl., 1:2400), 11/05, ISBN 1-55791-742-6 \$19.95
- MP-06-1 Ground-water sensitivity and vulnerability to pesticides, Upper Bear River Valley, Rich County, Utah, by Mike Lowe, Janae Wallace, Stefan Kirby, Justin Johnson, Anne Johnson, and Rich Riding, CD (25 p., 2 pl., 1: 145,000), ISBN 1-55791-745-0, 5/06 \$19.95
- MP-06-4 Ground-water sensitivity and vulnerability to pesticides, Central Virgin River Basin, Washington and Iron Counties, Utah, by Mike Lowe, Janae Wallace, Justin Johnson, Anne Johnson, and Rich Riding, CD (24 p., 2 pl., 1: 145,000), ISBN 1-55791-756-6, 9/06 \$19.95
- MP-06-6 History and mineral resource characterization of Sevier Lake, Millard County, Utah, by J. Wallace Gwynn, CD (144 p.), ISBN 1-55791-753-1, 11/06 \$14.95

MP-06-9 Shoreline Superelevation: evidence of coastal processes of Great Salt Lake, Utah, by Genevieve Atwood, 323 p., CD, ISBN 1-55791-761-2, 11/06 \$14.95

PUBLIC INFORMATION SERIES

Public Information publications are brief, topical reports or color brochures of translated (non-technical) geologic information; they undergo full UGS review for scientific accuracy.

- PI-1 Earthquake fault map of a portion of Weber County, Utah, by UGS staff, 1990, 8½ x 11 FREE
- PI-2 Earthquake fault map of a portion of Davis County, Utah, by UGS staff, 1990, 8½ x 11 FREE
- PI-3 Earthquake fault map of a portion of Salt Lake County, Utah, by UGS staff, 1990, 8½ x 11 FREE
- PI-4 Geothermal resources map of Utah, by UGS staff, 1 pl., approx. scale 1:1,000,000, 1990 (updated to 1/98) \$3.00
- PI-5 Geologic resources of Salt Lake County, Utah, by S.N. Eldredge and C.M. Wilkerson, 32 p., 1990, ISBN 1-55791-338-2 \$3.50
- PI-6 Earthquake hazards and safety in Utah, 4 p., 1990 FRFF
- PI-7 Geologic resources of Summit County, Utah, by M.H. Bugden and C.M. Wilkerson, 23 p., 1990, ISBN 1-55791-340-4 \$3.50
- PI-8 Great Salt Lake information sheet, 1 p., 1990; updated to 1/98 by J.W. Gwynn FREE
- PI-9 Geology and scenery of the central Wasatch Range, Salt Lake and Summit Counties, by Miriam Bugden, 17 p., 1991, ISBN 1-55791-342-0 \$3.00
- PI-11 Earthquake fault map of a portion of Utah County, Utah, by UGS staff, 8½ x 11, May 1991 FREE
- PI-13 The geology of Snow Canyon State Park, Washington County, Utah, by Miriam Bugden, 16 p., 9/1992, ISBN 1-55791-346-3 \$1.75
- PI-14 Geologic resources of San Juan County, Utah, by S.N. Eldredge, 30 p., December 1992, ISBN 1-55791-347-1 \$2.50
- **PI-17** Utah stone, by B.T. Tripp, color flyer, 4/93, ISBN 1-55791-350-1 **\$0.25**
- PI-18 Radon-hazard potential in the Sandy-Draper area, Salt Lake County, Utah, by B.J. Solomon, 1 p., September 1993 FREE
- **PI-19** Utah's geologic history, by C.M. Wilkerson, 4 p., 11/93 **FREE**
- PI-20 Geologic resources of Washington County, Utah, by Miriam Bugden, 26 p., 12/93, ISBN 1-55791-353-6 \$2.00
- PI-21 Radon-hazard potential in the Provo-Orem area, Utah County, Utah, by B.J. Solomon, 1 p., Sept 1993 Free
- PI-23 Rules and regulations regarding rock and mineral collecting in Utah, by GES staff, 1 p., 6/1994 Free
- PI-24 Liquefaction-potential map for a part of Davis County, Utah, by J.L. Jarva, 1 p., 8/94 FREE
- **PI-25** Liquefaction-potential map for a part of Salt Lake Co., Utah, by J.L. Jarva, 1 p., 8/94 **FREE**
- PI-26 Special issue on Utah (reprint of *Rocks & Minerals* Utah Special) 62 p., 1994, ISBN 1-55791-359-5 **\$3.50**
- PI-27 Liquefaction-potential map for a part of Weber County, Utah, by J.L. Jarva, 1 p., 8/94 FREE

- PI-28 Liquefaction-potential map for a part of Utah County, Utah, by J.L. Jarva, 1 p., 8/94 FREE
- **PI-32** Thermal springs in Utah, compiled by R.E. Blackett, 1: 1,000,000, ISBN 1-55791-365-X **\$4.00**
- PI-34 Canyon Country: a geologic guide to the Canyonlands travel region, by S.N. Eldredge, 25 p. color, 1996, ISBN 1-55791-373-0 \$1.95
- PI-35 Radon-hazard potential in the St. George area, Washington County, Utah, by B.J. Solomon, 1 page, 2/96, ISBN 1-55791-388-9 Free
- PI-36 Radon-hazard potential in the Ogden Valley, Weber County, Utah, by B.J. Solomon, 1 page, 2/96, ISBN 1-55791-389-7 Free
- PI-37 Total thickness of coal in the John Henry Member of the Straight Cliffs Formation, Kaiparowits coal field, Utah, by R.E. Blackett, 1 p., 1"=6.4 miles, 5/96, ISBN 1-55791-390-0 Free
- PI-38 Homebuyers guide to earthquake hazards in Utah, by S.N. Eldredge, 27 p., 11/96, ISBN 1-55791-386-2 \$3.00
- PI-39 Commonly asked questions about Utah's Great Salt Lake and ancient Lake Bonneville, by J.W. Gwynn, 22 p., 8/96, ISBN 1-55791-378-1 \$2.25
- **PI-40** The Wasatch fault, by S.N. Eldredge, 17 p., 12/96, ISBN 1-55791-387-0 **\$2.00**
- PI-41 3D stereo topographic map of Utah, by American Stereo Map Co., 1996, 1 pl., 1:750,000, ISBN 1-55791-382-X \$4.00
- **PI-42** Utah caves, by R.L. Hylland, 1 p., 10/96, ISBN 1-55791-391-9 **Free**
- PI-43 Radon-hazard potential in western Salt Lake Valley, Salt Lake County, Utah, by B.D. Black, 2 p., ISBN 1-55791-393-5 Free
- PI-44 Radon-hazard potential in Tooele Valley, Tooele Co., Utah, by B.D. Black, 2 p., ISBN 1-55791-394-3 Free
- PI-45 Radon-hazard potential in the lower Weber River area, Weber and Davis Counties, Utah, by B.D. Black, 2 p., ISBN 1-55791-395-1 Free
- PI-46 Radon-hazard potential in southeastern Cache Valley, Cache County, Utah, by B.J. Solomon and B.D. Black, 2 p., ISBN 1-55791-396-X Free
- PI-47 Radon-hazard potential in the central Sevier Valley, Sevier County, Utah, by B.J. Solomon, 2 p., ISBN 1-55791-397-8 Free
- **PI-48** Earthquakes & Utah, by Sandra Eldredge, 6 p., 8/97, ISBN 1-55791-607-1 **Free**
- PI-49 Topographic map of the Grand Staircase-Escalante National Monument, Utah, 3/1997, scale 1:200,000, ISBN 1-55791-604-7 \$4.00
- **PI-50** Utah gold: history, placers, and recreational regulations, by C.M. Wilkerson, 9 p., 8/97, ISBN 1-55791-611-X **\$1.00**
- PI-51 Brine properties, mineral extraction industries, and salt load of Great Salt Lake, Utah, by J.W. Gwynn, 2 p., 6/97 ISBN 1-55791-612-8 Free
- **PI-53** Stability of the Pine Ridge landslide at Timber Lakes Estates, Wasatch County, Utah: implications for future development and land-use planning, by F.X. Ashland and M.D. Hylland, 4 p., 9/97 **Free**
- PI-54 Utah: a geologic history from Paleozoic to Present, by R.W. Reading, A.E. Godfrey, and D.A. Prevedel, poster 35" x 18", 3/98, ISBN 1-55791-617-9 \$2.00
- PI-55 Oft Gestellte Fragen Uber den Groben Salzsee (German version of PI-39), by J.W. Gwynn (translation by B. Long-Murdock), 22 p., 10/97, ISBN 1-55791-618-7 \$1.75
- PI-57 Metalliferous resources of Utah, by Martha R. Smith and Mark R. Milligan, color brochure, 3/99 50¢

- PI-58 Homeowner's guide to recognizing and reducing landslide damage on their property, by GES staff, 4 p., 7/98 Free
- PI-59 Utah minerals, 20 x 22" poster, 8/98 \$1.00
- PI-60 Building stones of downtown Salt Lake City, a walking tour, by C.M. Wilkerson, 24 p., 4/99, ISBN 1-55791-628-4 \$2.75
- PI-62 Rockhound guide to selected rock and mineral localities in Utah, by GES staff, color foldout, 6/99 ISBN 1-55791-629-2 \$1.25
- **PI-63** The Geology of Quail Creek State Park, by R.F. Biek, 21 p., 8/99 ISBN 1-55791-630-6 **\$3.50**
- PI-64 What is the Grand Staircase? 2 p., 6/99 Free
- PI-65 The geology of Goblin Valley State Park, by Mark Milligan, 21 p., 12/99, ISBN 1-55791-641-1 \$3.65
- **PI-66** Geologic maps what are you standing on? by R.F. Biek, 7 p., 12/99, ISBN 1-55791-640-3 **\$1.75**
- PI-68 Small mine permits in Utah, by Roger Bon and Sharon Wakefield, 5 p., 1 pl. (approximate scale 1"= 13 miles), 12/99 \$3.50
- PI-69 Rock-fall hazards, by W.F. Case, 2 p. color flyer Free
- **PI-70** Debris-flow hazards, by W.F. Case, 2 p. color flyer, 10/00 **Free**
- PI-71 Utah! 100 years of exploration...and still the place to find oil and gas, 20 p., 5/01, ISBN 1-55791-655-1, updated 3/06, ISBN 1-55791-655-1 **\$2.50**
- PI-72 Photo essay of four Utah Earthquakes, 1921-1962, by Sandra N. Eldredge and Edith H. O'Brien, 22 p., 11/01, ISBN 1-55791-659-4 \$3.00
- PI-73 Utah Geological Survey, 6 p., 8/01 Free
- PI-74 Landslides: What they are, why they occur, by William F. Case, color flyer, 11/01 Free
- PI-75 Using geologic-hazards information to reduce risks and losses a guide for local governments, by Barry J. Solomon, 6-page color brochure, 12/01 Free
- PI-76 Ground-shaking map for a magnitude 7.0 earthquake on the Wasatch fault, Salt Lake City, Utah metropolitan area, by Ivan Wong, Walter Silva, Douglas Wright, Susan Olig, Francis Ashland, Nick Gregor, Gary Christenson, James Pechmann, Patricia Thomas, Mark Dober, and Robyn Gerth, 3/02, 1 pl. \$3.00
- PI-77 Rainbow of rocks: mysteries of sandstone colors and concretions in Colorado Plateau canyon country, by
 M.A. Chan and W.T. Parry, 17 p., 10/02 \$2.00
- PI-78 St. George dinosaur tracksite, 2 p., 9/02 Free
- PI-79 Liquefaction potential map for Cache Valley, Cache County, Utah, 1 p., 8/03 Free
- **PI-80** Liquefaction susceptibility map for Tooele Valley, Tooele County, Utah, 1 p., 8/03 **Free**
- PI-81 Geologic postcard of Utah, by Grant Willis, 6/04 \$0.50
- PI-82 Geologic postcard of Goblin Valley, 6/04 \$0.25
- PI-83 Earthquake fault map of a portion of Cache County, Utah, 2 p., 7/04 FREE
- **PI-84** Earthquake fault map of a portion of Tooele County, Utah, 2 p., 7/04 FREE
- **PI-85** Earthquake fault map of a portion of Washington County, Utah, 2 p., 7/04 FREE
- PI-86 Preguntas comunes acerca de Gran Lago Salado de Utah y de Antiguo Lago Boneville (Spanish version of Commonly asked questions about Utah's Great Salt Lake) by J. Wallace Gwynn, 22 p., 1/05 \$2.25
- PI-87 Geologic guide to the central Wasatch Front canyons, Salt Lake County, Utah, by Sandra Eldredge, 28 p., ISBN 1-55791-722-1, 9/05 \$3.95

Utah (2 versions)

Kane County
Grand County
Arches National Park
Snow Canyon State Park
Grand Staircase-Escalante N.M.
Minerals of Utah - 12 different ones
Goblin Valley State Park

REPORTS OF INVESTIGATION

Reports of Investigation present the results of site-specific or project-specific investigations. They undergo full UGS review process to ensure that they satisfy both scientific and format standards. RIs are prepared on request and mailed within one week.

- **RI-184** Mining conditions and problems encountered within the Texasgulf-Cane Creek Potash Mine near Moab, Utah; and potential mining conditions at Gibson Dome, Utah, by J.W. Gwynn, 1984, 12 p. **\$1.90**
- RI-185 Low-temperature geothermal assessment of the Jordan Valley, Salt Lake County, Utah, by R.H. Klauk, 1984, 160 p., 5 pl. \$31.70
- RI-187 Geologic evaluation of five culinary water facilities and settlement canyon dam for Tooele City, Tooele County, Utah, by W.R. Lund, 1984, 32 p. \$3.90
- RI-188 Assessment of potential damage to real property from major debris flow in Standel Cove Subdivision, Salt Lake County, Utah, by B.N. Kaliser, R.W. Jeppson, and R.S. Baty, Jr. 1984, 27 p. \$3.40
- RI-189 Sediment source study Little Cottonwood, Big Cottonwood and Mill Creeks, Salt Lake County, Utah, by G.E. Christenson, 1984, 22 p. \$2.90
- **RI-190** Technical letters and memoranda for 1983, Site Investi- gation Section, edited by W.R. Lund, 1985, 221 p. **\$22.80**
- RI-194 Reconnaissance study of the Black Dragon tar sand deposit T. 20-22 S., R. 12- 13 E., San Rafael Swell, Emery County, Utah, by B.T. Tripp, 1985, 45 p. \$5.20
- RI-195 Causes of basement flooding along 11800 South near 3800 West, South Jordan and Riverton, Salt Lake County, by G.E. Christenson, 1985, 29 p. \$3.60
- RI-196 Economic potential of state-owned lands in the Sunnyside Special Tar Sand Area, Carbon County, Utah, by Keith Clem, 1985, 29 p. \$3.60
- RI-197 Dam failure inundation study for Deer Creek Dam, Utah County, by W.F. Case, 1985, 37 p. \$4.40
- RI-198 Technical reports for 1984 Site Investigation Section, compiled by K.M. Harty, 1985, 291 p. \$29.80
- RI-199 Preliminary geologic hazard and resource inventory for state lands in Washington County, Utah, by G.E. Christenson and C.E. Bishop, 1985, 14 p. \$2.10
- RI-200 Mineral occurrences in the Emergency Withdrawal Area and adjacent lands in the Great Salt Lake Desert (Tooele Co.) by J.W. Gwynn, K.M. Clem, M.A. Shubat, B.T. Tripp and P.A. Sturm, 1985, 41 p. \$4.80
- RI-201 The Hill Creek oil-impregnated sandstone deposit, (Uintah Co.) by J.W. Gwynn, 1985, 40 p. \$4.90
- RI-202 UGS involvement with Paradox Basin repository siting: a review of UGS activities associated with the Department of Energy's efforts to evaluate areas within the Paradox Basin as suitable for a high level nuclear waste repository, (San Juan Co.), by S.N. Eldredge and G. Atwood, 1985, 84 p. \$9.10

- RI-203 Geologic evaluation of a proposed landfill site in Weber County, Utah, by K.M. Harty, 1985, 18 p. \$2.50
- RI-205 Description, correlation, and summary of coal drill core TM-7, (Emery Co.) by S.N. Sommer, and D.A. Foster, 30 p., 1986 \$3.70
- RI-206 Geologic evaluation of a proposed regional wastewater treatment plant site, Washington County, Utah, by W.R. Lund and W.F. Case, 22 p., 1986 \$2.90
- RI-208 Technical reports for 1985, Site Investigation Section, compiled by W.E. Mulvey, 1986, 278 p. \$28.50
- RI-209 Scandium-bearing aluminum phosphate deposits of Utah, by M.A. Shubat, 26 p., 1988 \$3.30
- RI-210 Overburden map and thickness determination, Sunnyside oil-impregnated sandstone deposit, Carbon and Duchesne counties, Utah, by J.W. Gwynn, 1986, 1 plate, 5 p. \$4.20
- RI-211 An approximation of the physical and chemical characteristics of Farmington Bay and Bear River Bay, Great Salt Lake, Utah, by J.W. Gwynn, 1986, 22 p. \$2.90
- RI-212 Engineering geology for land-use planning for a parcel of state-owned land east of Washington County, Utah, by R.H. Klauk and W. Mulvey, 1986, 30 p. \$3.70
- RI-213 Investigation of potential geologic hazards near the Thistle landslide, Utah County, Utah, by G.C. Willis, 1987, 24 p. \$3.10
- RI-214 Study of landslides west of the K & J subdivision in Snake Creek Canyon, Wasatch County, Utah, by R.H. Klauk and W. Mulvey, 28 p., 1987 \$3.50
- RI-215 Technical reports for 1986 Site Investigation Section, compiled by W. Mulvey, 158 p., 1987 \$16.50
- RI-216 Technical reports for 1987 Site Investigation Section, compiled by B.D. Black, 115 p., 1988 \$12.20
- RI-217 An overview of landslide inventories predominantly of North America, S.N. Eldredge, 98 p. \$10.50
- **RI-219** Coal quality characteristics of Utah's coal beds in and near potentially producible coal tracts, by A.C. Keith, 1989, 169 p. **\$17.60**
- **RI-220** Technical reports for 1988-1989, Applied Geology Program, compiled by B.D. Black, 159 p., 6/90 **\$16.60**
- RI-221 Mineral and energy resources in Kane County, Utah and their occurrence with respect to Wilderness Study Areas, by R.E. Blackett, C.J. Brandt, T.C. Chidsey, Jr., and C.E. Bishop, 42 p., April 1992 \$4.90
- RI-222 Technical reports for 1990-1991, Applied Geology Program, compiled by B.H. Mayes, 246 p., 7/92 \$25.30
- RI-223 Debris-flood and debris-flow hazard from Lone Pine Canyon near Centerville, Davis County, Utah, by W.E. Mulvey, 40 p., March 1993 \$4.70
- RI-224 Technical reports for 1992-1993, Applied Geology Program, compiled by B.H. Mayes and S.I. Wakefield, 175 p., 5/94 \$18.20
- RI-225 The resinite resources of selected coal seams of the Book Cliff and Wasatch Plateau coal fields of central Utah, by D.E. Tabet, B.P. Hucka, and S.N. Sommer, 19 p., 1/95 \$2.60
- RI-226 Characteristics of Utah coals in the University of Utah's Coal Sample Bank, by S.N. Sommer, D.M. Bodily, and E.M. Whitney, 53 p., 3/95 \$6.00
- RI-227 Energy and mineral resource evaluation of School and Institutional Trust Lands in the southern Deep Creek Range, Juab County, Utah, by R.W. Gloyn, D.A. Sprinkel, B.T. Tripp, R.E. Blackett, 36 p, 5/95 \$4.30
- RI-228 Technical reports for 1994-1995, Applied Geology Program, compiled by B.H. Mayes, 162 p., 2/96 \$19.60
- RI-229 Recharge area and water quality of the valley-fill aquifer, Castle Valley, Grand County, Utah by N.P. Snyder, 22 p., 5/96 \$2.90

- RI-230 Potential for potable ground water on State land near Canyonlands National Park, (San Juan Co.) Utah, section 16, T. 30 S., R. 20 E., by C.E. Bishop, 25 p., 5/96 \$3.20
- **RI-231** Technical reports for 1996, Applied Geology Program, compiled by B.H. Mayes, 183 p., 2/97 **\$19.00**
- RI-232 Preliminary geotechnical-engineering slope-stability investigation of the Pine Ridge landslide, Timber Lakes Estates, Wasatch County, Utah, by F.X. Ashland and M.D. Hylland, 29 p., 7/97 \$3.60
- RI-233 Report to the Utah Geological Survey on the 1996 Gobi-Altay, Mongolia, paleoseismology expedition, by W.R. Lund, 14 p. + appendix, 4/97 \$2.10
- RI-234 Reconnaissance of the Shurtz Lake landslide, Utah County, Utah by F.X. Ashland, 22 p., 7/97 \$2.90
- RI-235 The potential impact of septic tank soil-absorption systems on water quality in the principal valley-fill aquifer, Tooele Valley, Tooele County, Utah assessment and guidelines, by Janae Wallace and Mike Lowe, 10 p., 3/98 \$1.70
- RI-236 Technical Reports for 1997, Applied Geology Program, compiled by B.H. Mayes, 126 p., 3/98 \$13.30
- RI-237 The potential impact of septic tank soil-absorption systems on water quality in the principal valley-fill aquifer, Ogden Valley, Weber County, Utah by Janae Wallace and Mike Lowe, 11 p., 5/98 \$1.80
- RI-238 Guidelines for preparing hydrogeologic reports addressing suitability for alternative waste-water disposal systems in rock in Duchesne County, Utah by Mike Lowe, 11 p., 5/98 \$1.80
- RI-239 The potential impact of septic tank soil-absorption systems on water quality in the principal valley-fill aquifer, Cedar Valley, Iron County, Utah assessment and guidelines, by Janae Wallace and Mike Lowe, 11 p., 5/98 \$1.80
- RI-240 Delineation of drinking water source protection zones for the Green Hills Country Estates well 02, Weber County, Utah, by Charles E. Bishop and Mike Lowe, 24 p. + 15 p. appendix, 2/99 \$4.60
- RI-241 Potential mineral precipitation and water compatibilities related to the Drunkards Wash project, Carbon County, Utah by J.W. Gwynn, 22 p., 11/98 \$2.90
- RI-242 Technical reports for 1998, Applied Geology Program, compiled by Greg N. McDonald, 219 p., 3/99 \$22.60
- RI-243 Delineation of drinking water source protection zones for the Newcastle public water supply well, Iron County, Utah, by C.E. Bishop, 51 p., + 20 p. app., 1999 \$7.80
- RI-244 Technical reports for 1999, Applied Geology Program, compiled by G.N. McDonald, 85 p., 2000 **\$8.90**
- RI-245 Delineation of drinking water source protection zones for Warm Spring, a public-water-supply spring, Iron County, Utah, by Charles E. Bishop, 39 p., 4/01 \$4.60
- RI-246 Delineation of drinking water source protection zones for Water System Canyon Spring, a public-water-supply spring, Iron County, Utah, by Charles E. Bishop, 35 p., 4/01 \$4.30
- RI-247 Delineation of drinking water source protection zones for Covered Bridge Canyon public water supply well, Utah County, Utah, by Charles E. Bishop, 37 p., 8/01 \$4.30
- RI-248 Site-response characterization for implementing SHAKEMAP in northern Utah, by Francis X. Ashland, 10 p., 2 pl., 1:500,000, 10/01 \$9.50
- **RI-249** Delineation of drinking water source protection zones for the Monte Verde public water supply well, Morgan County, Utah, by Charles E. Bishop, 19 p. + 18 p.

appendix, 10/01 \$4.30

- RI-250 Technical reports for 2000-01, Geologic Hazards Program, compiled by Greg N. McDonald, 3/02, 140 p. \$6.75
- RI-251 Movement history and preliminary hazard assessment of the Heather Drive landslide, Layton, Davis County, Utah, by Richard E. Giraud, March 2002, 22 p. \$11.00
- RI-252 Newcastle, Utah small-scale geothermal power development project exploratory drilling, by Robert E. Blackett, 8 p. + 21 p. appendix, 4/04 \$6.00
- RI-253 Reconnaissance investigation of ground cracks along the western margin of Parowan Valley, Iron County, Utah, by Christopher B. DuRoss and Stefan M. Kirby, CD (17 p.), 10/04 \$14.95
- RI-254 Hydrogeologic setting of the Snake Valley Hydrologic Basin, Millard County, Utah, and White Pine and Lincoln Counties, Nevada -- Implications for possible effects of proposed water wells, by Stefan Kirby and Hugh Hurlow, CD (39 p.), 1/05 \$19.95

OPEN-FILE REPORTS

Open-File Reports are for data intended to stand either temporarily or permanently with minimal technical review and editing. They are convenient for releasing timely information, databases and reports that are heavily data-laden, and preliminary maps and manuscripts that will be superceded after more rigorous review and editing.

- OFR-69 See Allens Ranch in MAP LIST \$7.60
- OFR-82 Significant drill holes of the Wasatch Front valleys including Cache Valley and Tooele Valley, by W.F. Case, 1985 (updated to 12/1988), 235 p. \$20.75
- **OFR-87DF** Great Salt Lake brine sampling program 1966 to 1985, history, database, and averaged data, by P.A. Sturm, 183 p., 1 diskette, 1986 **\$20.00**
- **OFR-88** Utah coal core methane desorption project, final report, by A.D. Smith, 59 p., 1986 \$5.25
- OFR-100 Argyle Canyon-Willow Creek tar sand deposit isopach map (Duchesne Co.), by Bryce Tripp, 1986 1:50,000, 1 pl. \$3.00
- OFR-101 Argyle Canyon-Willow Creek tar sand deposit overburden map, (Duchesne Co.) by Bryce Tripp, 1986, 1:50,000, 1 pl. \$3.00
- **OFR-109** Utah's geologic hazards: a review for realtors, by G.E. Christenson and D.R. Mabey, 7 p., 1987 **\$1.00**
- OFR-112 National Science Teachers Association Great Salt Lake field trip, by J.W. Gwynn, 5 p., 1 pl.,1987 \$3.40
- OFR-127 Maximum extent of potential flooding due to simultaneous failure of dams in Salt Lake County, Utah by W.F. Case, 28 p., 1 pl., 1 inch = approx. 1 1/4 miles, 1988 \$5.50
- OFR-130 See Antelope Peak in MAP LIST \$4.80
- **OFR-132** Acid neutralizing capacity map of Utah, by W. F. Case, 9 p., 1 pl., scale 1:500,000, 1988 **\$3.80**
- OFR-142 see Cannonville in MAP LIST \$4.50
- OFR-147 AAPG Highway Map--Utah geologic cross section, L.F. Hintze, G.C. Willis, H.H. Doelling, 1 pl., 1989 \$3.00
- **OFR-149** Water-related geologic problems of 1983 in southeastern Utah, by F.D. Davis, 89 p., 1989 **\$7.70**
- **OFR-150** A short course in petroleum geology, with examples from Utah's petroleum provinces, by C.N. Tripp, 1989
 - Volume 1 Short course, 186 p. **\$16.50**
 - Volume 2 Student manual, 208 p. \$18.50
 - Volume 3 Teacher manual, 61 p. \$5.40
 - Volume 4 Wildcat simulation game, 66 p. \$5.80
- **OFR-151** The Davis County flood warning and information

- system, by Mike Lowe, S.R. Williams, and S.W. Smith, 15 p., 1989 **\$1.30**
- OFR-152 Subsurface map and seismic risk analysis of the Salt Lake Valley, by H. Radkins, M. Murphy, and G.T. Schuster, 82 p., 4 pl., 4 color pages, 1989 \$19.20
- OFR-153 Mineral occurrences of the Tooele 1° x 2° quadrangle, west-central Utah, by B.T. Tripp, M.A. Shubat, C.E. Bishop, and R.E. Blackett, 85 p., 3 pl., 1989, 1:48,000 \$16.50
- OFR-153-DF Utah Mineral Occurrence System Database for the Tooele 1° x 2° quadrangle, west-central Utah, by B.T. Tripp, M.A. Shubat, R.E. Blackett, and C.E. Bishop, 1 diskette, April 1990 \$5.00
- OFR-156 Oil development and potential of Mississippian and older formations in San Juan County, Utah, by H. W. Merrell, 26 p., 6 pl., 1989 \$20.30
- OFR-159 Probabilistic liquefaction severity index maps of the State of Utah, by M.A. Mabey and T.L. Youd, 28 p., 1989 \$2.50
- OFR-160 A hydrocarbon exploration model for the Cretaceous Ferron Sandstone Member of the Mancos Shale, and the Dakota Group in the Wasatch Plateau and Castle Valley of east-central Utah, with emphasis on post-1980 subsurface data, by C.N. Tripp, 81 p., 15 pl., 1:250,000, 1989 \$52.10
- OFR-161 Geochemical characteristics of hydrothermally altered black shales of the southern Oquirrh Mountains and relationships to Mercur-type gold deposits, by P.N. Wilson and W.T. Parry, 64 p., 1989 \$5.60
- OFR-166 A re-evaluation of the volcanic history and mineral potential of the central East Tintic Mountains, Utah (Juab Co.), by J.D. Keith, R.D. Dallmeyer, Choon-Sik Kim, and B.J. Kowallis, 86 p., 2 pl., 3 color plates, November 1989 \$13.50
- OFR-167 See Fisher Valley in MAP LIST \$13.20
- OFR-168 Earthquake instrumentation for Utah, report and recommendations of the Utah Policy Panel on Earthquake Instrumentation, edited by W. J. Arabasz, 164 p., 1990 \$14.50
- OFR-169 Correlation of Jurassic sediments of the Carmel and Twin Creek Formations of southern Utah using bentonitic characteristics, by B.H. Everett, B.J. Kowallis, E.H. Christiansen, and A. Deino, 60 p., 1990 \$5.25
- OFR-170 Cleat and joint system evaluation and coal characterization of the sub-3 seam coal, Castle Gate No. 3 mine, Carbon County, Utah, by Brigitte Hucka, S.N. Sommer, and A.C. Keith, 34 p., 1990 \$3.00
- OFR-171 Cleat and joint system evaluation and coal characterization of the B-bed coal, Dutch Creek Mine, Pitkin County, Colorado, by Brigitte Hucka, S.N. Sommer, A.C. Keith, 36 p., 1990 \$3.25
- **OFR-175-DF** Utah indoor radon data, by D.A. Sprinkel and B.J. Solomon, 1 diskette, April 1990 **\$5.00**
- OFR-176A Coalbed methane resource map, Castlegate A bed, Book Cliffs coal field, Utah, by A.C. Keith, J.S. Hand, and A.D. Smith, 1 pl., 1:100,000, 1990 \$3.00
- OFR-176B Coalbed methane resource map, Castlegate B bed, Book Cliffs coal field, Utah, by A.C. Keith, J.S. Hand, and A.D. Smith, 1 pl., 1:100,000, 1990 \$3.00
- OFR-176C Coalbed methane resource map, Castlegate C bed, Book Cliffs coal field, Utah, by A.C. Keith, J.S. Hand, and A.D. Smith, 1 pl., 1:100,000, 1990 \$3.00
- OFR-176D Coalbed methane resource map, Gilson bed, Book Cliffs coal field, Utah, by A.C. Keith, J.S. Hand, and A.D. Smith, 1 pl., 1:100,000, 1990 \$3.00
- **OFR-176E** Coalbed methane resource map, Castlegate D bed, Book Cliffs coal field, Utah, by A.C. Keith, J.S.

- Hand, and A.D. Smith, 1 pl., 1:100,000, 8/1991 **\$3.00**
- OFR-176F Coalbed methane content map, Sunnyside coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 \$3.00
- OFR-176G Coalbed methane content map, Rock Canyon coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 \$3.00
- **OFR-176H** Coalbed methane content map, Kenilworth coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 **\$3.00**
- OFR-176I Coalbed methane content map, Subseam 1 coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 \$3.00
- OFR-176J Coalbed methane content map, Subseam 2 coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 \$3.00
- OFR-176K Coalbed methane content map, Subseam 3 coal bed, Book Cliffs Coal Field, Utah, compiled by Charles E. Bishop, 1 pl., 1:100,000, 10/01 \$3.00
- OFR-177 See Latimer in MAP LIST \$3.80
 OFR-178 See Lund in MAP LIST \$3.80
 OFR-179 See Burns Knoll in MAP LIST \$3.90
- **OFR-181** Geologic road log Spanish Fork, Utah to Price, Utah, by J.L. Baer, 70 p., May 1990 **\$6.25**
- **OFR-182-DF** Computer programs for paleostress reconstruction using fault slip data, by M.A. Shubat, 9 p., 1 diskette, May 1990 \$5.00
- OFR-183-DF Utah Mineral Occurrence System Database for the Delta 1° x 2° quadrangle, west-central Utah, by UGS staff, 1 disk, May 1990 \$5.00
- **OFR-184-DF** Utah Mineral Occurrence System Database for the Richfield 1° x 2° quadrangle, west-central Utah, by UGS staff, 1 disk, May 1990 **\$5.00**
- OFR-185-DF Utah Mineral Occurrence Database for the Cedar City 1° x 2° quadrangle, southwest Utah, by UGS staff, 1 disk, May 1990 \$5.00
- OFR-186 Structural properties of the American Fork, Provo, and part of the Spanish Fork subsegments, Wasatch normal fault zone, Utah, by R.L. Bruhn, J. J. Lee, and W.A. Yonkee, 43 p., May 1990 \$3.80
- OFR-189 The Newcastle geothermal system, Iron County, Utah, by R.E. Blackett, M.A. Shubat, D.S. Chapman, C.B. Forster, C.M. Schlinger, and C.E. Bishop, 179 p., 3 pl, 1:24,000, July 1990 \$24.80
- OFR-190 Cleat and joint system evaluation and coal characterization of the Lower Sunnyside coal, Sunnyside Mines, Carbon County, Utah, by Brigitte Hucka, 30 p., July 1990 \$2.60
- OFR-191 Ferron oil and gas field, T. 20-21 S., R. 7 E., Emery County, Utah by C.N. Tripp, 23 p., 4 pl., scale 1:24,000, July 1990 \$14.00
- OFR-192 Wasatch Plateau oil and gas field, T. 13-17 S., R. 6-7 E., Carbon, Emery, and Sanpete Counties, Utah by C.N. Tripp, 33 p., 6 pl., scale 1:100,000, 7/90 \$20.90
- OFR-193 Stratigraphy and ages of the basal Claron, Pine Hollow, Canaan Peak, and Grapevine Wash Formations, southwest Utah, by P.M. Goldstrand, 186 p., July 1990 \$16.40
- OFR-197 Geologic hazards and land-use planning: background, explanation, and guidelines for development in Weber County in Designated Geologic Hazards Special Study Areas, edited by Mike Lowe, with R.M. Robison, C.V. Nelson, G.E. Christenson, 70 p., 9/1990 \$6.25
- OFR-198 Geologic hazards and land-use planning: background, explanation, and guidelines for development in Davis County in Designated Geologic Hazards Special Study Areas, edited by Mike Lowe, with R.M. Robison, C.V.

- Nelson, G.E. Christenson, 75 p., 9/1990 **\$6.60 OFR-199** Tertiary geology of the southern portion of the Eureka quadrangle, Juab and Utah Counties, Utah, by J.D.
 - Keith and Choon-Sik Kim, 22 p., 1 pl., 8/90 \$4.90
- **OFR-200** A Salt Lake Valley field trip guide for educators teaching 8th grade earth science, by Gregory Bemis, 46 p., Sept. 1990 **\$4.00**
- OFR-202 Cleat and joint system evaluation and coal characterization of the Castlegate "A" coal, Beaver Creek No. 8 Mine, Carbon County, Utah, by Brigitte Hucka, 29 p., 1/91 \$2.60
- OFR-203 Cleat and joint system evaluation and coal characterization of the Sunnyside coal, Soldier Canyon Mine, Carbon County, Utah, by Brigitte Hucka, 29 p., 1/91 \$2.60
- OFR-207 Mines and prospects containing gold in Utah, by M.A. Shubat, B.T. Tripp, C.E. Bishop, and R.E. Blackett, 28 p., 2 pl., 1:750,000, Feb. 1991 **\$8.50**
- OFR-209 See Copper Creek Benches in MAP LIST \$9.95 OFR-210 Zeolite minerals in Utah, by B.H. Mayes and B.T.
- Tripp, 170 p., 1 pl., 1:750,000, May 1991 **\$18.00**
- OFR-211A Places with hazards; a teacher's handbook on natural hazards in Utah: The earthquake hazard in Utah, by S.N. Eldredge, 83 p., 6/91 (revised to 10/92) \$6.80
 - Part II slide set for 211A; 30 slides, 6 p. \$15.00
- OFR-211B Places with hazards; a teacher's handbook on natural hazards in Utah: Slope failures in Utah, by S.N. Eldredge, 45 p., June 1991 \$3.70
 Part II slides for 211B; 20 slides, 3 p. (rev. 11/93) \$10.00
- OFR-211C Places with hazards; a teacher's handbook on natural hazards in Utah: Problem soil and rock in Utah, by S.N. Eldredge and W.E. Mulvey, 21 p., 6/91 \$1.75
 - Part II slides for 211C: 14 slides. 3 p. \$7.50
- OFR-211D Places with hazards; a teacher's handbook on natural hazards in Utah: The radon hazard in Utah, by B.J. Solomon and D.A. Sprinkel, 32 p., 6/91 \$2.75 Part II slides for 211D; 14 slides, 3 p. (rev. 11/93) \$7.50

OFR-212	See Jarvis Peak in MAP LIST	\$11.50
OFR-217	See Oak City South in MAP LIST	\$3.00
OFR-218	See Scipio South in MAP LIST	\$3.00
OFR-219	See Scipio North in MAP LIST	\$3.00
OFR-220	See Fool Creek Peak in MAP LIST	\$3.00
OFR-221	See Oak City North in MAP LIST	\$3.00
OFR-223	See Williams Peak in MAP LIST	\$3.00
OFR-224	See Duggins Creek in MAP LIST	\$3.00
OFR-225	See Holden in MAP LIST	\$3.00
OFR-227	See Coffee Peak in MAP LIST	\$3.00
OFR-228	See Scipio Lake in MAP LIST	\$3.00

- OFR-238 Geologic hazards of Castle Valley, Grand County, Utah, by W.E. Mulvey, 31 p., 4 pl., 1:24,000, 7/92 \$14.70
- OFR-251 Isotopes and carbonate minerals in Lake Bonneville marl: records of lake-level fluctuations and climate change, by C.G. Oviatt, 16 p., 9/1992 \$1.40
- OFR-255 The March 16, 1992 M_L 4.2 western Traverse Mountains earthquake, Salt Lake County, Utah, by G.E. Christenson, 18 p., 10/92 **\$1.60**
- OFR-262 See Helper in MAP LIST \$3.00
- OFR-264-DF Geologic hazards bibliography of Utah, by K.M. Harty, Suzanne Hecker, and J.L. Jarva, 19 p., 1 disk (R:Base 2.11, or dBase III, or ASCII delimited are available on request), Dec. 1992 \$6.75
- **OFR-296** Quaternary geologic maps of Tooele Valley and the West Desert Hazardous Industry Area, Tooele County,

Utah, by B.J. Solomon, 48 p., 20 pl., 1:24,6 8/93 \$4.20 for text, \$3.00 each plate; \$6. total (see also SS-96)	
	3.00
	6.00
· · · · · · · · · · · · · · · · · · ·	3.00
OFR-302 Preliminary policies and development plan for the	
Utah Geological Survey component of the Utah Stro	ong-
Motion Instrumentation Program, S.S. Olig, G.E.	
Christenson, 15 p. + 26 p. appendix, 9/93 \$3.60 OFR-309 See Richfield in MAP LIST \$1	E 20
OFR-309 See Richilled in MAP LIST OFR-311DF Data release of low-temperature geothermal in	5.20
Utah, 8/94, 1 disk in Quattro Pro 4.0 for PC \$5.00	
OFR-314 Coal in the Straight Cliffs Formation of the souther	n
Kaiparowits Plateau region, Kane County, Utah, by	
Blackett, 15 p., + appendix + 1 pl. 1" = 2.3 miles, 2/9	
\$4.00	
OFR-316DF Resistivities and chemical analyses of selected	d oil
and gas field, water well, and spring waters, Utah, b	у
J.W. Gwynn, 1 diskette, May95 \$5.00 (see C-87))
OFR-318 Geologic hazards and land-use planning for Tooel	
Valley and the West Desert Hazardous Industry Are	
Tooele County, Utah by B.J. Solomon and B.D. Blad	
134 p., 56 pl., 1:24,000, Oct95 \$179.80 (text \$11.	.80,
plates \$3.00 ea) See also SS-96	
OFR-319 Engineering geologic map folio, western Wasatch County, Utah by M.D. Hylland, M. Lowe, and C.E.	
Bishop, 12 plates, 1:24,000 Landslide hazards, by MD. Hy	ulland
and Mike Lowe; Flood hazards, earthquake hazards, and problem s	oils,
by M.D. Hylland and C.E. Bishop; Suitability for wastewater disposa	
	6.00
(\$3.00 per plate)	
OFR-320 Dry holes and hydrocarbon shows in Summit Coulumn Utah by C.D. Morgan, 9 p., 1 pl., 1"=6.25 miles, 5/9	
\$3.80	,5
OFR-321 Petroleum plays in Summit County, Utah by T.C.	
Chidsey, Jr., 25 p., 10 pl., 1"=6.25 miles, 6/95 \$32	.20
	5.50
	5.50
OFR-325 Mines and prospects in and around the Farmingto	n
Canyon complex, northern Utah, by R.W. Gloyn, M.	A.
Shubat, and Bea Mayes, 30 p. + 66 p. appendices,	6
pl., 1:100,000, June95 \$36.40	
OFR-326DF Petroleum production and well data, Summit	'0 =
County, Utah by D.A. Sprinkel, 12 p., 2 diskettes, 7/	95
\$11.10	
OFR-329 Maps of total Ferron coal, depth to the top, and vitrinite reflectance for the Ferron Sandstone Memb	or of
the Mancos Shale, central Utah, D.E. Tabet, B.P.	ei oi
Hucka, and S.N. Sommer, 3 plates, 1:250,000, 12/9	95
\$15.00	
OFR-334 See Jump Creek in MAP LIST \$	6.00
OFR-335 Tar-sand resources of the Uinta basin, Utah: a cat	talog
of deposits, by R.E. Blackett, 122 p., 5/96 \$10.75	
•	3.00
OFR-340 Engineering geologic map folio, Springdale,	
Washington County, Utah, by B.J. Solomon, 6 plate	
scale 1:14,400, 8/1996 \$18.00 Landslide hazards; flood	
hazards and problem soils; earthquake hazards, shallow ground wa rockfall hazards, indoor-radon hazards; suitability for wastewater dis	
in septic-tank soil-absorption systems; geologic map; description an	
correlation of map units, stratigraphic columns, and geologic cross sections	
	6.00
OFR-342 See Kelton Pass in the MAP LIST \$1	5.20

OFR-344 See Monument Peak in MAP LIST

OFR-348 See Monument Point in MAP LIST

OFR-345 See Monument Peak NW in MAP LIST

OFR-346 See Monument Peak NE in MAP LIST

OFR-347 See Monument Peak SW in MAP LIST

AL SURVEY - 16	
OFR-349 See Locomotive Springs in MAP LIST OFR-351 See Valley City in MAP LIST OFR-352 See White Hills in MAP LIST OFR-354 See Cedar Pass in MAP LIST	\$6.00 \$11.60 \$14.30 \$6.00
OFR-355 See Deadman Point in MAP LIST OFR-356 See Burbank Pass in MAP LIST	\$6.00 \$6.00
OFR-357 See Big Jensen Pass in MAP LIST OFR-358 Ferron Sandstone reservoir type logs and litl Emery County, Utah, by P.B. Anderson, T.C. 0 Jr., and Kevin McClure, 2 pl. 12/97 \$6.00	
OFR-359 Interim geologic map of the Smoky Mountai 60' quadrangle, Kane and San Juan Counties and Coconino County, Arizona by Hellmut H. 2 pl., 1:100,000, 1/98 \$6.00	, Utah
OFR-360 A summary of the geology and hydrogeolog Cedar Valley drainage basin, Iron County, Uta Eisinger, 14 p., 4/98 \$1.20	
OFR-362 Coal resources of the Henry Mountains coa David E. Tabet, 32 p., 6 pl., scale 1:100,000, \$20.30	
OFR-366 Interim geologic map of the Kanab 30' x 60' quadrangle, Kane and Washington Counties, and Coconino and Mohave Counties, Arizona, Hellmut H. Doelling, 17 p., 1 pl., 1:100,000, 2/\$7.00	by
OFR-367 Interim geologic map of the SE part of the P 30' x 60' quadrangle, Garfield and Kane Coun Utah, by Hellmut H. Doelling and Grant C. Wil 1 pl., 1:100,000, 2/99 \$3.60	ties,
OFR-368 Interim geologic map of the Escalante and p the Loa and Hite Crossing 30' x 60' quadrangl Garfield and Kane Counties, Utah, by Hellmut Doelling and Grant C. Willis, 26 p., 1 pl., 1:100 2/99 \$8.50	es, H.
OFR-369 Known and potential sand, gravel, and cruss stone resources in Grand County, Utah, by Gr McDonald, 21 p. 1 pl., scale 1" = 4 miles, 4/99	eg N. \$4.80
OFR-371 See Clear Creek Mountain in MAP LIST OFR-373 Notable Utah rock falls in the 1990s and 198 William F. Case, 11 p., 10/2000 \$1.00	\$4.50 80s, by
OFR-380 Progress report: Geologic map of the Ogden quadrangle, Utah and Wyoming, year 3 of 3, the C. Coogan and Jon K. King, 30 p., 1 pl., 1:100 2/01 \$8.60	y James
OFR-382 See Crandall Cny/Hidden Lake in MAP LIST OFR-384 Utah Geological Survey earthquake-respons and investigation field guide, by Barry J. Solor p. + 32 p. appendix, 7/01 \$3.50	e plan
OFR-386 See Kolob Arch in MAP LIST OFR-387 See Kolob Reservoir in MAP LIST OFR-388 See Cogswell Point in MAP LIST OFR-389 Ferron Sandstone permeability database, Ivi area, Emery County, Utah, by Craig B. Forste	
Stephen H. Snelgrove, 7/02, CD \$19.95 OFR-390 Ferron Sandstone stratigraphic cross section Creek area, Emery County, Utah, by Paul B.	
Anderson, Thomas C. Chidsey Jr., Kevin Mc. Mattson, and Stephen H. Spelgrove, 7/02, CD	lure, Ann

Mattson, and Stephen H. Snelgrove, 7/02, CD

OFR-392 Documentation and installation guide for HOMCODE:

a code for scaling up permeabilities using

photographs, Ivie Creek and Muddy Creek areas, Emery County, Utah, by Carolyn M. Olsen and Cheryl

homogenization, by Joe Koebbe, 7/02, 416 p. \$25.00

\$5.00

\$5.00

OFR-391 Ferron Sandstone (Upper Cretaceous) core

Gustin, 4/02, CD \$19.95

OFR-393 See Springdale E in MAP LIST

OFR-394 See Springdale W in MAP LIST

\$19.95

\$6.00

\$6.00

\$6.00

\$6.00

\$6.00

- OFR-395 See The Guardian Angels in MAP LIST
- OFR-396 See Temple of Sinawava in MAP LIST

\$5.20 \$5.00

- **OFR-398** Large mine permits in Utah 2002, by Roger Bon and Sharon Wakefield, 3 p., 1 pl. approx. scale 1" = 14 mi **\$4.50**
- OFR-399 Progress report Geologic map of the Dutch John 30' x 60' quadrangle, Utah, Colorado, Wyoming year 3 of 3, compiled by Douglas A. Sprinkel, 3 pl., 1:62,500, 9/02 \$15.00
- OFR-401 see Veyo in MAP LIST

\$3.00

- OFR-404 Interim geologic map of the San Rafael Desert 30' x 60' quadrangle, Emery and Grand Counties, Utah, by Hellmut H. Doelling, 1 pl., 20 p., 1:100,000, 10/02 \$6.50
- **OFR-405** Small mine permits in Utah 2002, by Roger L. Bon and Sharon Wakefield, 7 p., 1 pl., approx. scale 1:750,000, 12/02 **\$4.50**
- OFR-406 See Cave Flat in the MAP LIST

\$4.00

- OFR-407 Geologic guide and road logs of the Willow Creek, Indian, Soldier Creek, Nine Mile, Gate, and Desolation Canyons, Uinta Basin, Utah, by Craig D. Morgan, 57 p. + 16 p. appendix of 2 measured sections, CD-ROM, 3/03 \$14.95
- **OFR-410** The feasibility of collecting accurate landslide loss data in Utah, by Francis X. Ashland, 25 p., 3/03 **\$5.75**
- OFR-411 Reservoir characterization of the Lower Green River Formation, Uinta Basin, Utah, by Craig D. Morgan, Thomas C. Chidsey Jr., Kevin P. McClure, S. Robert Bereskin, and Milind D. Deo, 4/03, CD (140 p. + 76 p. appen., 28 pl.) \$14.95
- OFR-412 Interpreted regional photomosaics and cross section, Cretaceous Ferron Sandstone, east-central, Utah, by Paul B. Anderson, Kevin McClure, Thomas C. Chidsey, Jr., Thomas A. Ryer, Thomas H. Morris, John A. Dewey, Jr., and Roy D. Adams, CD (29 p., 8 pl., 228 photomosaics), 7/03 \$14.95
- OFR-413 Utah Core Research Center catalog of samples, by W.F. Case, CD, 7/03 (UPDATED to September 2005) \$14.95
- OFR-419 The Weber River Basin aquifer storage and recovery project, by Mike Lowe, Hugh A. Hurlow, and Marek Matyjasik, 43 p., 1 pl., 9/03 \$12.50
- OFR-420 Reservoir modeling and composition simulation of primary depletion, waterflooding, and carbon dioxide flooding of a small Pennsylvanian carbonate mound complex, Anasazi field, Paradox Basin, Utah, Volume I, by Wilber E. Culham and Douglas M. Lorenz, CD (540 p.), 10/03 \$14.95
- OFR-421 Reservoir modeling and composition simulation of primary depletion and carbon dioxide flooding of a small Pennsylvanian carbonate mound complex, Runway field, Paradox Basin, Utah, Volume I, by Wilber E. Culham and Douglas M. Lorenz, CD (420 p.), 10/03 \$14.95
- OFR-423 See Little Drum Pass in MAP LIST \$5.60
- OFR-424 Interim map showing shear-wave-velocity characteristics of engineering geologic units in the Salt Lake City, Utah metropolitan area, by Francis X. Ashland and Greg N. McDonald, CD (43 p., 1 pl., 1:75,000), 12/03 \$19.95
- OFR-425 See Francis Canyon in MAP LIST \$6.00
- OFR-426 See Lost Creek Dam in MAP LIST \$6.00
 OFR-427 See Peck Canyon in Map List \$6.00
- OFR-427 See Peck Canyon in Map List \$6.00
 OFR-428 See Mona in Map List \$11.30
- OFR-429 Ferron Sandstone drill-hole database and lithologic logs, Ferron Creek to Last Chance Creek, Emery and Sevier Counties, Utah, by Brigitte P. Hucka, Steven N. Sommer, Douglas A. Sprinkel, and David E. Tabet (a

- recasting of OFR-317, 317DF, and 331), CD, 4/04 **\$14.95**
- OFR-430 Oil and gas field studies, compiled by Craig D.
 Morgan, CD in pdf format (80 p., 29 plates) (reprints of
 OG16-23, C84, OFR-307 & 232), 7/04 \$14.95
- OFR-431 Geothermal resources of Utah 2004: A digital atlas of Utah's geothermal resources, compiled by Robert E. Blackett and Sharon Wakefield, 8/04, CD [CD contains GIS data] (update of OFR-397), OFR-431 \$14.95
- OFR-432 Progress report: Geologic map of the Vernal 30' x 60' quadrangle, Utah and Colorado, Year 2 of 3, compiled by Douglas A. Sprinkel, 2 pl., 1:100,000. 7/04 \$9.95
- OFR-433 Liquefaction potential maps for Utah, CD in pdf format (463 p., 81 plates) (reprints of CR-94-1 to CR-94-10), Liquefaction potential maps for: northern Wasatch Front, central Utah, and for Davis, Salt Lake, and Utah Counties, 8/04 \$14.95
- OFR-434 Interim geologic maps of the Copperton, Magna, and Tickville Spring quadrangles, Salt Lake and Utah Counties, Utah, by Robert F. Biek, Barry J. Solomon, Jeffrey D. Keith, and Tracy W. Smith, CD (4 pl.), 1:24,000, 8/04 \$14.95
- OFR-436 Interim geologic map of the Curlew Valley drainage basin, Box Elder County, Utah, and Cassia and Oneida Counties, Idaho, by Hugh A. Hurlow, 34 p., 1 pl. 1:100,000, 8/04 \$9.95
- **OFR-437** Field guides to southwest Utah, 2004, CD (742 p., 12 pl.), 10/04 **\$14.95**
- OFR-438 Interim geologic map of the east half of the Salina 30' x 60' quadrangle, Emery, Sevier, and Wayne Counties, Utah, by Hellmut H. Doelling, 12 p., 1 pl. 1:62,500, 10/04 \$7.95
- OFR-439 Progress report geologic map of the east part of the Provo 30' x 60' quadrangle, Utah (year 4 of a multi-year project), by Kurt N. Constenius and James C. Coogan, 22 p., 1 pl. !:62,500, 12/04 \$7.50
- OFR-440DM Geologic map of the Huntington 30' x 60' quadrangle, Carbon, Emery, Grand and Uintah Counties, Utah, by Irving J. Witkind, (digitized from U.S. Geological Survey Miscellaneous Investigations Series Map I-1764 [1988]), CD (scale 1:100,000), 12/04 [CD contains GIS data] \$14.95
- OFR-441DM Geologic map of Westwater 30' x 60' quadrangle, Grand and Uintah Counties, Utah and Garfield and Mesa Counties, Colorado, by J.L. Gualtieri, (digitized from U.S. Geological Survey Miscellaneous Investigations Series Map I-1765 [1988]), CD (scale 1:100,000), 12/04 [CD contains GIS data] \$14.95
- OFR-442 See Virgin in MAP LIST

\$7.95

- OFR-443DM Interim geologic map of the lower San Juan River area, eastern Glen Canyon National Recreation Area and vicinity, San Juan County, Utah, by Grant C. Willis, CD (scale 1:50,000), 12/04 [CD contains GIS data] \$14.95 (paper copy \$15.00)
- OFR-444 See Jericho in MAP LIST OFR-445 See Mills in MAP LIST

\$8.50 \$5.00

- OFR-446 Investigation of the potential of Interferometric Synthetic Aperture Radar (InSAR) to detect land subsidence in SW Utah, by Richard R. Forster, 21 p., 1/05 \$14.95
- OFR-447 Water resources of Millard County, Utah, by Fitzhugh D. Davis, 27 p., 5/05 \$10.00
- OFR-448 Ground-water-level fluctuations in Wasatch Front landslides and adjacent slopes, northern Utah, by Francis. X. Ashland, Richard E. Giraud, and Greg N. McDonald, 22 p., 5/05 \$10.00

OFR-449 North Horn Mountain area coal drill-hole data:
Wasatch Plateau coalfield, Emery County, Utah, CD,
6/05 \$14.95

OFR-450	See Deseret Peak East in MAP LIST	\$14.95
OFR-451	See Plain City in MAP LIST	\$9.95
OFR-452	See Charleston in MAP LIST	\$7.00
OFR-453	See Loa 30' x 60' in MAP LIST	\$7.25
OFR-454	See Beaver 30' x 60' in MAP LIST	\$10.95
OFR-455	30' x 60' geologic mans of Litab, a set of	f ndf images of

- OFR-455 30' x 60' geologic maps of Utah, a set of pdf images of all available maps to date (8/05) \$14.95
- OFR-456 Interim geologic map of the West Mountain Peak quadrangle, Washington County, Utah, by Janice M. Hayden, Lehi F. Hintze, and J. Buck Ehler, 19 p., 1 pl. 1:24,000, 12/05 \$7.25
- OFR-458 Defining and characterizing Mesaverde and Mancos Sandstone reservoirs based on interpretation of image logs, eastern Uinta Basin, by Mark W. Longman and Randy J. Koepsell, DVD (115 p., 1500+ images), 9/05 \$14.95
- OFR-457 See Castle Cliff in MAP LIST
- OFR-459 A multidisciplinary approach to reservoir characterization of the coastal Entrada erg-margin gas play, Utah, by Thomas H. Morris, John H. McBride, and Will D. Monn, CD (50 p.), 9/05 \$14.95
- OFR-460 Mesaverde gas of southeastern Uinta Basin, by Paul B. Anderson, CD (19 p., 6 pl. 1:100,000, 10 pl. 1:300,000, 3 pl. 1"=100 ft), 9/05 \$14.95
- OFR-461 Shale gas reservoirs of Utah: Survey of an unexploited potential energy resource, by Steven Schamel, CD (114 p., appendix of core photos and databases), 9/05 \$14.95
- OFR-462 Uranium publications of the UGS (reprints of 14 outof-print items concerning uranium/vanadium), CD (1418 p., 14 pl.), 10/05 \$14.95
- OFR-464 See Terry Benches in MAP LIST \$9.00
- OFR-465 Water-Resource Bulletins of the Utah Geological Survey, 1962 to 1987, CD (1065 p., 26 pl.), 11/05 \$14.95
- **OFR-466** Lead and zinc publications for Utah: a collection of reprints, compiled by Ken Krahulec, CD (750 p., 14 pl.), 8/06 \$14.95
- **OFR-468** Large mines in Utah 2005, compiled by Roger L. Bon and Sharon Wakefield, 4 p., 1 pl., 1:700,000, 12/05 **\$4.50**
- OFR-469 Utah Oil Shale Database, compiled by Michael D. Vanden Berg, John R. Dyni, and David E. Tabet, CD, 9/06 \$24.95
- OFR-470 Interim geologic map of the Vernal 30x60 quadrangle, Uintah and Duchesne Counties, Utah, and Moffat and Rio Blanco Counties, Colorado, by Douglas A. Sprinkel, 2 pl., 1:100,000, 1/06 \$9.95
- OFR-476DM Interim geologic map of the Cedar City 30' x 60' quadrangle, Iron and Washington Counties, Utah, by Peter D. Rowley, Van S. Williams, Garrett S. Vice, David J. Maxwell, David B. Hacker, Lawrence W. Snee, and J. Hoover Mackin, CD (2 pl., 1:100,000, CD [contains GIS data]), 7/06 \$19.95
- OFR-477 Basin and range province earthquake working group seismic-hazard recommendations to the U. S. Geological Survey National Seismic Hazard Mapping Program, edited by William R. Lund, print on demand, 5/06 \$4.00

OFR-479	See Dairy Ridge in MAP LIST		\$7.25
OFR-480	See Horse Ridge in MAP LIST		\$7.25
OFR-482	See West Mountain in MAP LIST		\$6.00

OFR-483 Integrated sequence stratigraphic and geochemical resource characterization of the lower Mancos shale.

Uinta Basin, Utah, by Donna S. Anderson and Nicholas B. Harris, CD (130 p.), 11/06 **\$14.95**

OFR-484	See Soldiers Pass in MAP LIST	\$7.25
OFR-486	See Goshen Valley North in MAP LIST	\$6.00
OFR-487	See Kanab in MAP LIST	\$7.25
OFR-488	See Spanish Fork in MAP LIST	\$7.25
OFR-490	Progress report geologic map of the east pa	rt of the
	Drava 201 v 601 avadranala I Itah and Maaata	h

- **OFR-490** Progress report geologic map of the east part of the Provo 30' x 60' quadrangle, Utah and Wasatch Counties, Utah, by Kurt N. Constenius, James C. Coogan, and Robert F. Biek, print on demand (31 p., 1 pl., 1:62,500), 9/06 \$7.25
- OFR-491DM Interim geologic map of the Dutch John 30' x 60' quadrangle, Daggett and Uintah Counties, Utah, Moffat County, Colorado, and Sweetwater County, Wyoming, by Douglas A. Sprinkel, CD (3 pl., 1:100,000 [contains GIS data]), 12/06 \$19.95
- OFR-492 Reservoir characterization of the Cretaceous Cedar Mountain and Dakota Formations, southern Uinta Basin: Year-one report, by Mary L. McPherson, Brian S. Currie, and Justin S. Pierson, CD (139 p.), 11/06 \$14.95
- OFR-493 Interpretation of the Jurassic Entrada Sandstone play using 3D seismic attribute analysis, Uinta Basin, Utah, by R. William Keach II, Thomas H. Morris, John H. McBride, Mike Mullen, Hannes E. Leetaru, and Ryan O'Neal, CD (22 p., 4 pl.), 12/06 \$14.95

OFR-496 See Mount Waas in MAP LIST \$10.25
OFR-497 See Warner Lake in MAP LIST \$10.25
OFR-498 See Durst Mountain in MAP LIST \$7.25

OFR-499 Shale gas resources of Utah: Assessment of previously undeveloped gas discoveries, by Steven Schamel, CD (85 p.), 12/06 **\$14.95**

As a service to customers, we can plot some out-of-print U.S.G.S. geologic maps - many are extraordinary, like the "Tintic Special Folio" of 1900. Ask Geostore staff.

LANDSLIDE MAPS

A series of maps depicting landslides at a scale of 1:100,000 (based on 30 x 60-degree quadrangles) was produced for Utah. Each has a short booklet explaining map compilation and sources. There are 45 available. They are updated periodically to reflect new data and new landslides. Price for a single map is \$3.50. Ask for "publications on landslides" for a complete listing.

CONTRACT REPORTS

Contract Reports are prepared for the UGS by non-UGS authors and are not subject to technical review or editing. Contract Reports are prepared on request and mailed within one week. Series discontinued

- **CR-91-3** Flood potential factors of rainstorms in central Davis County, Utah, by S.R. Williams, 110 p., 2 pl., scale 1:24,000, 2/91 **\$15.70**
- CR-91-5 Gold occurrence in the Cretaceous Mancos Shale, eastern Utah, by Gordon Marlatt, 21 p., 2/91 \$1.80
- CR-91-6 Crystallization conditions for a Be- and Y-rich granite the Sheeprock granite of west-central Utah, by E.H. Christiansen, J.P. Rogers, Li Ming Wu, 106 p., 4/91 \$9.30
- **CR-91-7** Nonferrous metals mining plants in Utah, by L.P. James, 50 p., 7/91 **\$4.40**
- CR-91-8 Soil chronology of the Wasatch Front based on weathering profiles, by H.D. Lessig, 46 p., 1 pl. approx scale 1" = ½ mile, 8/91 \$7.00
- **CR-91-9** Abundance of yttrium in Late Cenozoic igneous rocks of western Utah and adjoining areas, by W.P. Nash, 82 p., 7/91 \$7.25
- CR-91-10 Collapsible soil hazard map for the Cedar City, Utah area, by Tonya Williams and K.M. Rollins, 37 p., 3 pl., 1:24,000, 7/91 \$12.30
- CR-91-11 Assessing debris flow hazards on alluvial fans in Davis County, Utah, J.R. Keaton, L.R. Anderson, C.C. Mathewson, 167 p. + 159 p. appendix, 7/91 \$28.70
- **CR-91-12** Landward pinch-out of Cretaceous marine nearshore clastics in the Ferron Sandstone Member of the Mancos Shale and Blackhawk Formation, east-central Utah; potential petroleum stratigraphic traps, by P.B. Anderson, 110 p., 8/91 **\$9.75**
- CR-91-13 Skarn occurrences in Utah and the potential for associated gold mineralization, by J.E. Reid, 29 p., plus 20 p. appendix, 8/91 \$4.25
- **CR-91-15** Structural setting of seismicity in northern Utah, by J.P. Evans, 37 p., 4 pl., 1:100,000, 11/91 \$15.30
- **CR-92-1** Seismological analysis of four recent moderate ($M_L4.8$ to 5.4) earthquakes in Utah, by J.C. Pechmann, S.J. Nava, and W.J. Arabasz, 107 p., 1/92 **\$9.40**
- **CR-92-2DF** GOTHIC gas, oil, and thermal history integrated code source-code, user guide, and sample input and output file, by Dave Deming and D.S. Chapman, 35 p., 1 diskette, 1/92 **\$8.10**
- CR-92-3 Geology of the Grassy Trail Creek field, Carbon and Emery Counties, Utah, by S.J. Lutz and M.L. Allison, 36 p., 2/92 \$3.20
- **CR-92-4** The origin of gilsonite vein deposits in the Uinta Basin, Utah, by B. Monson, J. Parnell, 27 p., 3/92 **\$2.40**
- **CR-92-5** Uncovering Sevier overthrust structure and potential hydrocarbon source rock using magnetotellurics, P.E. Wannamaker and J.M. Johnston, 12 p., 4/92 **\$1.10**
- CR-92-6 Ground-water flow systems in the central Wasatch Range, Utah, by A.L. Mayo, Mark Loucks, 116 p., 7/92 \$10.20
- CR-92-7 Upper crustal structure of the northern Wasatch Front, Utah, from seismic reflection and gravity data, by B.R. McNeil and R.B. Smith, 62 p., 2 pl. (no scale), 9/92 \$11.50
- CR-92-8 The Wasatch Formation in the central Bear River Range, northern Utah, by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 1:24,000, 11/92 \$28.00
- CR-93-1 Sedimentology of the Precambrian Big Cottonwood

- Formation, Big Cottonwood Canyon, central Utah, by M.A. Chan, 41 p., 2/93 **\$3.60**
- CR-93-2 see Wellsville quadrangle in MAP LIST \$7.50
- **CR-93-3** Characteristics of debris flows in central Utah, 1983, by E.W. Lips, 66 p., 4/93 **\$5.80**
- CR-93-4 Radiocarbon and thermoluminescence dating of Wasatch faulting events, Garner Canyon, Utah, by T.W. Stafford, Jr., 15 p., 5/93 \$1.30
- **CR-93-5** Petrologic and geochronologic studies in the Farmington Canyon Complex, Wasatch Mountains and Antelope Island, Utah by D. Barnett, J.R. Bowman, and H.A. Smith, 34 p., 1 pl., 1:50,000, 7/93 **\$6.00**
- CR-93-6 A hydrocarbon exploration model for the Beta Member of the Permian Kaibab Formation, with emphasis on the potential for hydrodynamically displaced oil, in east-central Utah, by C.N. Tripp, 16 p. + 104 p. appendix, 12 pl., 1:500,000, 8/93 \$46.60
- CR-93-7 Earthquake hazard evaluation of the West Valley fault zone in the Salt Lake City urban area, Utah, by J.R. Keaton and D.R. Currey, 69 p., 10/93 \$6.10
- CR-93-8 Paleoseismicity and earthquake hazards evaluation of the West Valley fault zone, Salt Lake City urban area, Utah, by J.R. Keaton, D.R. Currey, and S.J. Olig, 55 p. plus 33 p. appendix, 10/93 \$7.75
- **CR-95-1** Geological control of springs and seeps in the Farmington Canyon Complex, Davis County, Utah, by R.K. Skelton, 98 p., 2/95 **\$8.60**
- CR-95-2 Watershed characteristics contributing to the 1983-84 debris flows in the Wasatch Range, Davis County, Utah, by W.K. Coleman, 164 p., 2/95 \$14.40
- **CR-95-3** A probabilistic investigation of slope stability in the Wasatch Range, Davis County, Utah, by J.S. Eblen, 98 p., 2/95 **\$8.60**
- **CR-95-4** Bedrock structure, lithology and ground water: influences on slope failure initiation in Davis County, Utah, by S.N. Ala, 236 p., 2/95 \$20.75
- **CR-97-1** Complete Bouguer gravity anomaly map and geological interpretation of the southern Wasatch Front, Utah, by K.L. Cook, D.A. Edgerton, L.F. Serpa, and M. DePangher, 20 p., 1 pl., scale 1:100,000, 9/97 \$4.80

UTAH GEOLOGICAL ASSOCIATION

All the available yearly guidebooks produced by the **Utah Geological Association**, a non-profit organization of professional geologists (contact the Natural Resources Map/Bookstore for a complete list of titles and articles).

- UGS-2 Some structural features of the intrusions in the Iron Springs District by J.H. Mackin, 1947, 62 p., 6 pl., 1"=1650', 1"=1950', 1"=½ mi \$3.00
- UGS-16 Geology of the Bingham Mining District and northern Oquirrh Mountains, edited by D.R. Cook, 1961, 145 p., 7 pl., 1"=1.35 mi, 1"=2200', 1"=½ mi \$4.00
- **RMAG** Basin and Range symposium and Great Basin field conference, edited by G.W. Newman and H.D. Goode, 1979, 662 p. **\$24.00**
- UGA-1 Environmental geology tour of the Wasatch Front road logs, 1971 (from Field Conference 1) \$1.00
- UGA-7 Guidebook to mineral deposits of southwestern Utah, 1978, I.A.G.O.D. Meeting: International Association on the Genesis of Ore Deposits, Field Excursion C-2, D.R. Shawe editor, 1978, 75 p. \$1.00
- UGA-10 Overthrust belt of Utah, 1982 Symposium and Field

Conference, Utah Geological Association, edited by D.L. Nielson, 1982, 335 p., hardbound \$25.00

- UGA-11 P rograms and abstracts for 1982 symposium on the Overthrust Belt of Utah, T.L. Britt, editor, 1982, 19 p. \$1.00
- **UGA-12** Geology and energy resources, Uinta Basin of Utah, edited by M.D. Picard, 1985, 338 p. **\$25.00**
- UGA-13 Geology of northwest Utah, southern Idaho and northeast Nevada, edited by G.J. Kerns and R.L. Kerns Jr., 1984, 286 p. \$20.00
- UGA-14 Orogenic patterns and stratigraphy of north-central
 Utah and southeastern Idaho, edited by G.J. Kerns and
 R.L. Kerns Jr., 1985, 329 p., hardbound \$30.00
- UGA-15 Thrusting and extensional structures and mineralization in the Beaver Dam Mountains, southwestern Utah, edited by D.T. Griffen and W. R. Phillips, 1986, 217 p., 3 pl. \$15.00
- UGA-17 Geology and hydrology of hazardous-waste, mining-waste, waste-water and repository sites in Utah, edited by G.E. Cordy, 1989, 233 p. \$15.00
- UGA-18 Energy and mineral resources of Utah, edited by M.L. Allison, (1990 field trip) 1991, 222 p. \$12.00
- UGA-20 Hydrocarbon and mineral resources of the Uinta Basin, Utah and Colorado, edited by T.D. Fouch, V.F. Nuccio, and T.C. Chidsey, Jr., 366 p., 1992 \$30.00
- **UGA-21** Engineering and environmental geology of southwestern Utah, K.M. Harty, editor, 342 p., 1992 **\$25.00**
- **UGA-22** Oil and gas fields of Utah, B.G. Hill and S.R. Bereskin, editors, unpaginated (192 p.), 1993 **\$40.00**
- UGA-23 Cenozoic geology and geothermal systems of southwestern Utah, edited by R.E. Blackett and J.N. Moore, 213 p., 1994 \$30.00
- UGA-24 Environmental & engineering geology of the Wasatch Front region, W.R. Lund, editor, 541 p., 1995 \$40.00
- UGA-25 Geology and resources of the Paradox Basin, A.C.
 Huffman Jr., W.R. Lund, and L.H. Godwin, editors, 460
 p., 1996 \$45.00
- UGA-26 Modern & ancient lakes: new problems & perspectives, Pitman, J.K., and Carroll, A.R., editors, 328 p., 1998 \$48.00
- **UGA-27** Geology of northern Utah and vicinity, L.E. Spangler and C.J. Allen, editors, 1999, 407 p., **\$25.00**
- UGA-28 Geology of Utah's parks and monuments, D.A. Sprinkel, T.C. Chidsey Jr., and P.B. Anderson, editors, 2001, 644 p., \$34.99
- UGA-29 Geologic road, trail, and lake guides to Utah's parks and monuments, P.B. Anderson and D.A. Sprinkel, editors, CD-ROM, 2001, \$14.95
- UGA-30 The geologic transition, high plateaus to Great Basin: A symposium and field guide: The Mackin Volume, M.C. Erskine, editor and co-editors J.E. Faulds, Bartley, J.M. and P.D. Rowley, 2001, 430 p. \$29.99
- UGA-31 Ground water in Utah: Resource, protection, and remediation, Spangler, Lawrence E., editor, 2005, 261 p.

7.5-MINUTE QUADRANGLE GEOLOGIC MAPS (1:24,000 scale)

Listed alphabetically by quadrangle. Order number is in bold: M = Map, MP = Miscellaneous Publication, OFR = Open-File Report, CR = Contract Report. Maps have full color plates, have been extensively reviewed, and are considered to be useful for 10-20 years. OFRs and CRs are temporary releases, partially finished, or in progress.

- Geologic map of the **Agate** quadrangle, Grand County, Utah by G.C. Willis, H.H. Doelling, and M.L. Ross, 34 p., 2 pl., 1996 **M-168**
- Geologic map of the Allens Ranch quadrangle, North Tintic District, Utah County, Utah by P.D. Proctor, 18 p., 2 pl., 1985 OFR-69
- Geologic map of the **Alton** quadrangle, Kane County, Utah, by Terry L. Tilton, 22 p., 2 pl., 11/01 **MP-01-4**
- Geologic map of **Antelope Island**, Davis County, Utah by H.H. Doelling, G.C. Willis, M.E. Jensen, S. Hecker, W.F. Case, and J.S. Hand, 27 p, 2 pl, 1991 **M-127**
- Geology of **Antelope Peak** quadrangle, Iron Co., Utah by S.K. Grant and P.D. Proctor, 20 p., 1 pl., 1988 **OFR-130**
- Geologic map of the **Antelope Range** quadrangle, Sevier and Piute Counties, Utah, by P.D. Rowley, C.G. Cunningham, T.A. Steven, H.H. Mehnert, and C.W. Naeser, 14 p., 2 pl., 1988 **M-106**
- Geologic map of the **Aurora** quadrangle, Sevier County, Utah by G.C. Willis, 21 p., 2 pl., 1988 **M-112**
- Barracks see The Barracks
- Geologic map of the **Bear Lake South** quadrangle, Rich County, Utah by J.C. Coogan, 16 p., 3 pl., 1:24,000 & 1:48,000, 1997 MP-97-1
- Geologic map of the **Bear River City** quadrangle, Box Elder County, Utah, by M.E. Jensen, 12 p., 2 pl., 1994 **M-151**
- Geologic map of **Beryl Junction** quadrangle, Iron County, Utah by M.A. Siders, 11 p., 2 pl., 1985 **M-85**
- Geologic map of the **Big Bend** quadrangle, Grand County, Utah by H. H. Doelling and M.L. Ross, 29 p., 2 pl., 12/98 **M-171**
- Interim geologic map of the **Big Jensen Pass** quadrangle, Millard County, Utah by L.F. Hintze, 2 pl., 10/97 **OFR-357**
- Geologic map of the **Blue Mountain** quadrangle, Beaver County, Utah by C.L. Weaver, L.F. Hintze, 17 p., 2 pl., 1993 **M-146**
- Provisional geologic map of the **Boulder Mountain** quadrangle, Cache County, Utah by A.R. Mork, 9 p., 2 pl., 1990 **M-125**
- The Wasatch Formation (Boulder Mtn) in the central Bear River Range, northern Utah by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 11/92 CR-92-8
- Geologic map of the **Brigham City** 7.5-minute quadrangle, Box Elder and Cache Counties, Utah, by Mark E. Jensen and Jon K. King, 46 p., 2 pl., 10/99 **M-173**
- Interim geologic map of the **Burbank Pass** quadrangle, Millard County, Utah by L.F. Hintze, 2 pl., 10/97 **OFR-356**
- Geologic map of the **Burns Knoll** quadrangle, Beaver and Iron Counties, Utah by L.F. Hintze, M.G. Best, and C.L. Weaver, 10 p., 1 pl., 5/90 **OFR-179**
- Geologic map of the **Calf Creek** quadrangle, Garfield County, Utah by G.W. Weir and L.S. Beard, 5 p., 2 pl., 1990 **M-120**
- Geologic map of the **Calico Peak** quadrangle, Kane County, Utah by H.H. Doelling and F.D. Davis, 16 p., 2 pl., 1989 **M-123**
- Geology of the Cannonville quadrangle, Kane and Garfield Counties, Utah by R. Hereford, 17 p., 1 pl., 1988 OFR-142
- Interim geologic maps of the **Castle Cliff** quadrangle and the east half of the Terry Benches quadrangle, Washington County, Utah and Mohave County, Arizona, by Janice M. Hayden, Lehi F. Hintze, and J. Buck Ehler, 15 p., 2 pl., 12/05 **OFR-457 & 464**
- Interim geologic map of the **Cave Flat** (Mt. Pennell 2NW) quadrangle, GarfieldCounty, Utah, by Curtis Smith, 13 p., 2 pl., 1:24,000, 3/03, **OFR-406**
- Geoloģic map of the **Cedar Fort** 7.5' quadrangle, Utah County, Utah, by Robert F. Biek, 2 pl. 1:24,000, ISBN 1-55791-708-6, 12/04, **M-202**
- Interim geologic map of the **Cedar Pass** quadrangle, Millard County, Utah by L.F. Hintze, 2 pl., 10/97 **OFR-354**
- Geologic map of the **Center Creek** quadrangle, Wasatch County, Utah, by Robert F. Biek, Michael D. Hylland, John E. Welsh, and Mike Lowe, 25 p., 2 pl., 1:24,000, ISBN 1-55791-591-1, 4/03. **Map 192**
- Interim geologic map of the **Charleston** quadrangle, Utah and Wasatch Counties, Utah, by Robert F. Biek and Mike Lowe, 2 pl. 1:24,000, 8/05 **OFR-452**

- Geologic map of the Chriss Canyon quadrangle, Juab and Sanpete Counties, Utah, by Malcolm P. Weiss, James G. McDermott, Douglas A. Sprinkel, Raymond L. Banks, and Robert F. Biek, 26 p., 2 pl., 2/03 M-185
- Geologic map of the Circleville quadrangle, Beaver, Piute and Garfield counties, Utah by J.J. Anderson and P.D. Rowley, 5 p., 2 pl., 1986 M-82
- Geologic map of the Circleville Mountain quadrangle, Beaver, Piute, Iron and Garfield Counties, Utah by J.J. Anderson, 6 p., 2 pl., 1986 M-80
- Geologic maps of the Clarkston and Portage quadrangles, Box Elder and Cache Counties, Utah and Franklin and Oneida Counties, Idaho, by Robert F. Biek, Robert Q. Oaks, Jr., Susanne U. Janecke, Barry J. Solomon, and L. Marie Swenson Barry, 41 p., 3 pl., 1:24,000, ISBN 1-55791-594-6, 12/03, M-
- Interim geologic map of the Clear Creek Mountain quadrangle Kane County, Utah, by M.D. Hylland, 12 p., 2 pl., 9/00 OFR-
- Geologic map of the Clearfield 7.5' quadrangle, Davis County, Utah, by Dorothy Sack, 14 p., 2 pl., 1:24,000, ISBN 1-55791-724-8, 6/05, MP-05-4
- Interim geologic map of the Coffee Peak quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 OFR-227
- Interim geologic map of the Cogswell Point quadrangle, Washington, Kane, and Iron Counties, Utah by Robert F. Biek and Michael D. Hylland, 23 p., 1 pl., 4/02 OFR-388
- Geologic map of the Copper Creek Benches quadrangle, Garfield County, Utah by M.D. Jackson and J.S. Noller, 44 p., 2 pl., 3/91 **OFR-209**
- Interim geologic maps of the Copperton, Magna, and Tickville Spring quadrangles, Salt Lake and Utah Counties, Utah, by Robert F. Biek, Barry J. Solomon, Jeffrey D. Keith, and Tracy W. Smith, 4 pl., 1:24,000, 8/04 OFR-434 \$24.95
- Geologic map of the Coyote Knolls quadrangle, Millard County, Utah by D. Sack, 18 p., 2 pl., 1994 M-162
- Interim geologic maps of the Crandall Canyon and Hidden Lake quadrangles, Summit County, Utah, by Michael D, Bradley, 41 p., 6 pl., 5/01 **OFR-382**
- Geologic map of the Crater Island quadrangle, Box Elder County, Utah by D.M. Miller, T.E. Jordan, and R.W. Allmendinger; 16 p., 2 pl., 1990 **M-128**
- Geologic map of the Crater Island NW quadrangle, Box Elder County, Utah by D.M. Miller, 13 p., 2 pl., 1993 M-145
- Geologic map of the Crater Island SW quadrangle, Box Elder County, Utah by D.M. Miller; 8 p., 2 pl., 1990 M-129
- Geologic map of the Cutler Dam quadrangle, Box Elder and Cache Counties, Utah by C.G. Oviatt, 7 p., 2 pl., 1986
- Interim geologic map of the Dairy Ridge quadrangle, leading margin of Willard thrust sheet, Cache, Rich, and Weber Counties, Utah, by James C. Coogan, 19 p., 1 pl., 8/06 OFR-479
- Geology and coal resources of the **Deadman Canyon** quadrangle, Carbon County, Utah by M. Nethercott, 20 p., 2 pl., 6/85 M-76
- Interim geologic map of the Deadman Point quadrangle, Millard County, Utah by L.F. Hintze, 2 pl., 10/97 OFR-355
- Provisional geologic map of the Deseret Peak East quadrangle, Tooele County, Utah, by Torrey J. Copfer and James P. Evans, CD (31 p., 3 pl., 1:24,000), 9/05, OFR-450
- Geologic map of the **Dewey** quadrangle, Grand County, Utah by H.H. Doelling, 20 p., 2 pl., 8/96 M-169
- Interim geologic map of the Duggins Creek quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 OFR-224
- Interim geologic map of the Durst Mountain quadrangle, Morgan and Weber Counties, Utah, by James C. Coogan and Jon K. King, 30 p., 1 pl., 12/06 OFR-498
- Geologic map of the Elephant Butte quadrangle, Kane County, Utah and Mohave County, Arizona, by E.G. Sable and H.H. Doelling, 10 p., 2 pl., 1990 **M-126**
- Geologic map of the Escalante quadrangle, Garfield County, Utah by V.S. Williams, G.W. Weir, and L.S. Beard, 6 p., 2 pl., 1990
- Tertiary geology of the southern portion of the Eureka quadrangle, Juab and Utah Counties, Utah by J.D. Keith and Choon-Sik Kim, 22 p., 1 pl., 9/90 OFR-199
- Interim geologic map of the Fairview quadrangle, Sanpete County, Utah, by N.R. Jensen, 2 pl., 9/93 **OFR-300**
- Fairview Lakes quadrangle, Utah (Sanpete Co.), by G.G. Oberhansley, 8 p., 1 pl., 1980 M-56
- Geologic map of the Fisher Towers quadrangle, Grand County, Utah, by Hellmut H. Doelling, 22 p., 2 pl., 4/02 M-183

- Provisional geologic map of Fisher Valley quadrangle, Grand Co.,
- Utah by M. Goydas, 48 p., 3 pl., 1990 **OFR-167** Interim geologic map of the **Fool Creek Peak** quadrangle, Juab and Millard Counties, Utah by L.F. Hintze, 1 pl., 11/91 OFR-220
- Provisional geologic map of the Fountain Green North quadrangle, Sanpete and Juab Cos., Utah by R.L. Banks, 21 p., 2 pl., 1991 M-134
- Geologic map of the Fountain Green South quadrangle, Sanpete and Juab Counties, by A.W. Fong, 18 p., 2 pl., 1995 MP-95-1
- Interim geologic map of the Francis Canyon guadrangle, Lost Creek drainage, Morgan, Rich, and Summit Counties, Utah, by James C. Coogan, 10 p., 1 pl., 1:24,000, 2/04, OFR-425
- Geologic map of the Fremont Pass quadrangle, Iron and Garfield Counties, Utah by J.J. Anderson, T.C. Grant, 6 p., 2 pl., 1986
- Geologic map of the Geyser Peak quadrangle, Wayne and Sevier Counties, Utah by S.T. Nelson, 18 p., 2 pl., 1989 M-114
- Geologic map of the Gold Bar Canyon quadrangle, Grand County, Utah by H.H. Doelling, W.A. Yonkee, and J.S. Hand, 26 p., 2 pl., 1994 M-155
- Provisional geologic map of the Gold Hill quadrangle, Tooele County, Utah by J.P. Robinson, with a plate of the mines, prospects, and workings of the Gold Hill quadrangle, by H.M. Messenger, H.H. Doelling, B.T. Tripp, and M.E. Jensen, 19 p., 3 pl. 1993 M-140
- Interim geologic map of the Goshen Valley North Quadrangle, Utah County, Utah, by Donald L. Clark, Robert F. Biek, and Eric H. Christiansen, 13 p., 1 pl., 9/06 OFR-486
- Geologic map of the Grayback Hills quadrangle, Tooele County, Utah by H.H. Doelling, B.J. Solomon, and S.F. Davies, 22 p., 2 pl., 1995 **M-166**
- Provisional geologic map of the Gunnison quadrangle, Sanpete County, Utah by S. R. Mattox, 11 p., 2 pl., 1992 M-139
- Geologic map of the Harley Dome quadrangle, Grand County, Utah by G.C. Willis, 18 p., 2 pl., 1994 **M-157**
- Geologic map of the Harrisburg Junction quadrangle, Washington County, Utah by Robert F. Biek, 42 p., 2 pl., 1:24,000, ISBN 1-55791-592-X, 2/03, M-191,
- Geologic map of the Hatch quadrangle, Garfield County, Utah, by R.A. Kurlich III and J.J. Anderson, 17 p., 2 pl., 9/97 MP-97-5
- Provisional geologic map of the Hatch Mesa quadrangle, Grand County, Utah, by J.P. Chitwood, 16 p., 2 pl., 1994 M-152
- Geologic map of the Hayes Canyon quadrangle, Sanpete County, Utah, by D.H Petersen, 18 p., 2 pl., 9/97 MP-97-3
- Provisional geologic map of Hell's Kitchen Canyon SE quadrangle, Sanpete County, Utah by S. Mattox, 17 p., 2 pl., 1987 M-98
- Interim geologic map of the **Helper** guadrangle, Carbon county, Utah by M.P. Russon, 1 pl., 11/92 OFR-262
- Interim geologic maps of the Crandall Canyon and Hidden Lake quadrangles, Summit County, Utah, by Michael D, Bradley, 41 p., 6 pl., 5/01 **OFR-382**
- Geologic map of the Hildale quadrangle, Washington and Kane Counties, Utah and Mohave County, Arizona, by E.G. Sable, 14 p., 2 pl., 1995 M-167
- Interim geologic map of the Holden quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 OFR-225
- Geologic map of Honeyville quadrangle, Box Elder and Cache Counties, Utah by C.G. Oviatt, 13 p., 2 pl., 1986 M-88
- Interim geologic map of the Horse Ridge quadrangle, leading margin of Willard thrust sheet, Morgan, Rich, and Weber Counties, Utah, by James C. Coogan, 19 p., 1 pl., 8/06 OFR-480
- Geologic map of the Howell quadrangle, Box Elder County, Utah by T.E. Jordan, R.W. Allmendinger, and M.D. Crittenden Jr., 10 p., 2 pl., 1988 M-107
- Geologic map of the Hurricane quadrangle, Washington County, Utah by Robert F. Biek, 61 p., 2 pl., 1:24,000, ISBN 1-55791-587-3, 2/03, M-187
- Geologic map of the **Jackson** quadrangle, Box Elder County, Utah by D.M. Miller and L.L. Glick, 7 p., 2 pl., 1987 **M-95**
- Geologic map of the Jarvis Peak quadrangle, Washington County, Utah by B.J. Hammond, 63 p., 2 pl., 7/91 OFR-212
- Provisional structural geologic map of the Jericho quadrangle, Juab County, Utah, by Sanghoon Kwon and Gautram Mitra, 2 pl., 1:24,000, 5/05, **OFR-444**
- Preliminary geologic map of the Joes Valley Reservoir quadrangle, Emery and Sanpete Counties, Utah by J.M. Kitzmiller II, 6 p., 1 pl., 1982 M-67
- Geologic map of the Jordan Narrows quadrangle, Salt Lake and Utah Counties, Utah, by Robert F. Biek, 2 pl. 1:24,000, 6/05, M-208

- Geologic map of the **Jordan Narrows** quadrangle, Salt Lake and Utah Counties, Utah, by Robert F. Biek, CD (2 pl., 1:24,000 [contains GIS data]), ISBN 1-55791-746-9, 7/06, **M-208DM**
- Provisional geologic map of the **Juab** quadrangle, Juab County, Utah by D.L. Clark, 14 p., 2 pl., 1990 **M-132**
- Interim geologic map of the **Jump Creek** quadrangle, Carbon County, Utah by C.D. Hansen, 2 pl., 3/96 **OFR-334**
- Interim geologic map of the **Kanab** quadrangle, Kane County, Utah and Mohave and Coconino Counties, Arizona, by Janice M. Hayden, 12 p., 1 pl., 10/06 **OFR-487**
- Geologic map of the **Keg Pass** quadrangle, Juab County, Utah by M.A. Shubat and G.E. Christenson, 28 p., 2 pl., 1/00 **MP-99-**
- Geologic map of the **Keg Mtn. Ranch** quadrangle, Juab County, Utah by M.A. Shubat, T.J. Felger, and J.K. King, 22 p., 2 pl, 1/00 **MP-99-5**
- Interim geologic map of the **Kelton Pass** quadrangle, Box Elder County, Utah and Cassia County, Idaho, by M.L. Wells, 70 p., 3 pl, 1:24,000 and 1:48,000, 12/96 **OFR-342**
- Geologic map of the **King Bench** quadrangle, Garfield County, Utah by G.W. Weir and L.S. Beard, 5 p., 2 pl., 1990 **M-119**
- Interim geologic map of the **Kolob Arch** quadrangle, Washington and Iron Counties, Utah by Robert F. Biek, 31 p., 1 pl., 4/02 **OFR-386**
- Interim geologic map of the **Kolob Reservoir** quadrangle, Washington and Iron Counties, Utah by Robert F. Biek, 22 p., 1 pl., 4/02 **OFR-387**
- Preliminary geologic map of the **Laketown** quadrangle, Rich County, Utah by G.L. Valenti, 9 p., 1 pl., 1982 **M-58**
- Geologic map of the **Lampo Junction** quadrangle, Box Elder County, Utah by D.M. Miller, M.D. Crittenden Jr., and T.E. Jordan, 17 p., 2 pl., 1991 **M-136**
- Geologic map of the **Latimer** quadrangle, Iron County, Utah by L.F. Hintze and M.G. Best, 9 p., 1 pl., 5/90 **OFR-177**
- Geologic map of the **Lemay Island** quadrangle, Box Elder County,
 Utah by D.M. Miller and L.L. Glick, 9 p., 2 pl., 1986 **M-96**
- Geologic map of the **Lehi** quadrangle and part of the Timpanogos Cave quadrangle, , Salt Lake and Utah Counties, Utah, by Robert F. Biek, 2 pl. 1:24,000, **M-210**
- Geologic map of the **Lehi** quadrangle and part of the Timpanogos Cave quadrangle, Salt Lake and Utah Counties, Utah, by Robert F. Biek, CD (2 pl. [contains GIS data]), ISBN 1-55791-7467-7, 11/06, **M-210DM**
- Provisional geologic map of the **Levan** quadrangle, Juab County, Utah by W.L. Auby, 13 p., 2 pl., 1991 **M-135**
- Provisional geologic map of the **Limekiln Knoll** quadrangle, Box Elder County, Utah by B.E. Murphy, S.S. Buess, and C.G. Oviatt, 9 p., 2 pl., 1985 **M-79**
- Geologic map of the **Little Creek Mountain** quadrangle, Washington County, Utah, by Janice M. Hayden, 2 pl., 1:24,000, ISBN 1-55791-710-8, 7/04, **M-204**
- Geologic map of the **Little Creek Peak** quadrangle, Garfield and Iron Counties, Utah by J.J. Anderson, T.A. livari, and P.D. Rowley, 11 p., 2 pl., 1987 **M-104**
- Interim geologic map of the Little Drum Pass quadrangle, Millard County, Utah, by Lehi F. Hintze, 27 p., 1 pl., 1:24,000, 11/03 OFR-423
- Interim geologic map of the **Locomotive Springs** quadrangle, Box Elder Co., Utah by D.M. Miller, 34 p., 1 pl., 4/97 **OFR-349**
- Geologic map of the **Logan** quadrangle, Cache County, Utah by J.P. Evans, J.P. McCalpin, D.C. Holmes, 16 p., 2 pl., 8/96 **MP-96-1**
- The Wasatch Formation (Logan Peak) in the central Bear River Range, northern Utah by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 11/92 CR-92-8
- Geologic map of the **Long Ridge** quadrangle, Millard Co., Utah by L.F. Hintze and F.D. Davis, 10 p., 2 pl., 1992 M-141
- Interim geologic map of the **Lost Creek Dam** quadrangle, Lost Creek drainage, Morgan and Weber Counties, Utah, by James C. Coogan, 10 p., 1 pl., 1:24,000, 2/04, **OFR-426**
- Geologic map of the **Lucin** quadrangle, Box Elder County, Utah by D.M. Miller, 10 p., 2 pl., 1985 **M-78**

- Geologic map of the **Lucin NW** quadrangle, Box Elder County, Utah by D.M. Miller and C.G. Oviatt, 14 p., 2 pl., 1994 **M-158**
- Geologic map of the **Lucin 4 SW** quadrangle, Box Elder County, Utah by D.M. Miller; 13 p., 2 pl., 1990 **M-130**
- Geologic map of the **Lucin 4 NW** quadrangle, Box Elder County, Utah by L.L. Glick and D.M. Miller, 4 p., 2 pl., 1986 **M-93**
- Geologic map of the **Lund** quadrangle, Iron County, Utah by S.K. Grant, L.F. Hintze, and M.G. Best, 9 p., 1 pl., 5/90 **OFR-178**
- Interim geologic maps of the Copperton, **Magna**, and Tickville Spring quadrangles, Salt Lake and Utah Counties, Utah, by Robert F. Biek, Barry J. Solomon, Jeffrey D. Keith, and Tracy W. Smith, 4 pl., 8/04 **OFR-434**
- Geologic map of the **Manti** 7.5-minute quadrangle, Sanpete County, Utah by Malcolm P. Weiss and Douglas A. Sprinkel, 22 p., 2 pl., 1:24,000, ISBN 1-55791-588-1, 11/02, **M-188**
- Geologic map of the **Marysvale** quadrangle, Piute County, Utah by P.D. Rowley, C.G. Cunningham, T.A. Steven, H.H. Mehnert, and C.W. Naeser, 15 p., 2 pl., 1988 **M-105**
- Geologic map of the **McCornick** quadrangle, Millard County, Utah, by F.D. Davis, 13 p., 2 pl., 1994 **M-165**
- Geologic map of the **Merrimac Butte** quadrangle, Grand County, Utah by H.H. Doelling and C.D. Morgan, 22 p., 2 pl., 2000 **M-178**
- Geologic map of the **Midvale** quadrangle, Salt Lake County, Utah by Fitzhugh D. Davis, 11 p., 2 pl., 10/2000 **M-177**
- Interim geologic map of the **Mills** quadrangle, Juab County, Utah, by Charles G. Oviatt and Lehi F. Hintze, 5 p., 1 pl, 1:24,000, 2/05, **OFR-445**
- Geologic map of the **Moab** 7.5' quadrangle, Grand County, Utah, by Hellmut H. Doelling, Michael L. Ross, and William E. Mulvey, 34 p., 2 pl., 2/02 **M-181**
- Provisional geologic map of the **Mona** quadrangle, Juab and Utah Counties, Utah, by Tracy J. Felger, Michael N. Machette, and Martin L. Sorensen, 23 p., 2 pl., 1:24,000, 3/04, **OFR-428**
- Interim geologic map of the **Monument Peak** quadrangle, Box Elder Co., Utah by D.M. Miller and Holly Langrock, 34 p., 1 pl., 4/97 **OFR-344**
- Interim geologic map of the **Monument Peak NW** quadrangle, Box Elder Co., Utah and Oneida Co., Idaho by D.M. Miller, 34 p., 1 pl., 4/97 **OFR-345**
- Interim geologic map of the **Monument Peak NE** quadrangle, Box Elder Co., Utah and Oneida Co., Idaho by D.M. Miller, 34 p., 1 pl., 4/97 **OFR-346**
- Interim geologic map of the **Monument Peak SW** quadrangle, Box Elder Co., Utah and Oneida Co., Idaho by D.M. Miller and Holly Langrock, 34 p., 1 pl., 4/97 **OFR-347**
- Interim geologic map of the **Monument Point** quadrangle, Box Elder Co., Utah by D.M. Miller and Holly Langrock, 34 p., 1 pl., 4/97 **OFR-348**
- Geologic map of the **Moroni Peak** quadrangle, Wayne County, Utah, by Stephen R. Mattox, 14 p., 2 pl., 11/01 **MP-01-5**
- Provisional geologic and coal resources map for the **Mt. Ellen** quadrangle, Henry Mountains, Garfield County, Utah by L.B. Morton, 15 p., 3 pl., 1986 **M-90**
- The Wasatch Formation (Mt. Elmer) in the central Bear River Range, northern Utah by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 11/92 CR-92-8
- Geologic map of the **Mount Escalante** quadrangle, Iron County, Utah by M.A. Siders, 9 p., 2 pl., 1991 **M-131**
- Preliminary geologic map of the **Mount Waas** quadrangle, Grand County, Utah, by Michael L. Ross, 18 p., 2 pl., 11/06 OFR-496
- Provisional geologic map of the **Nephi** quadrangle, Juab County, Utah by R.F. Biek, 21 p., 2 pl., 1991 **M-137**
- Geologic map of the **Navajo Lake** quadrangle, Kane and Iron Counties, Utah, by David W. Moore, L. David Nealy, Peter D. Rowley, Stanley C. Hatfield, David J. Maxwell, and Eric Mitchell, 2 pl., 1:24,000, ISBN 1-55791-599-7, 6/04, **M-199**
- Geologic map of the **New Harmony** quadrangle, Washington County, Utah by S.K. Grant, 14 p., 2 pl., 1995 **MP-95-2**

- Interim geologic map of the **Oak City North** quadrangle, Utah and Millard Counties, Utah by L.F. Hintze, 1 pl., 11/91 **OFR-221**
- Interim geologic map of the **Oak City South** quadrangle, Utah and Millard Counties, Utah by L.F. Hintze, 1 pl., 11/91 **OFR-217**
- Geologic map of the **Ogden** 7.5-minute quadrangle, Weber and Davis Counties, Utah, by Adolph Yonkee and Mike Lowe, 42 p., 2 pl. 1:24,000, ISBN 1-55791-713-2, 10/04, **M-200**
- Geologic map of the **Panguitch NW** quadrangle, Iron and Garfield Counties, Utah by J.J. Anderson, P.D. Rowley, 8 p., 2 pl., 1987 **M-103**
- Geologic map of the **Patterson Pass** quadrangle, Box Elder County, Utah and Elko County, Nevada, by D.M. Miller, A.P. Lush, and J.D. Schneyer, 20 p., 2 pl., 1993 **M-144**
- hterim geologic map of the **Peck Canyon** quadrangle, Lost Creek drainage, Morgan and Rich Counties, Utah, by James C. Coogan, 10 p., 1 pl., 1:24,000, 2/04, **OFR-427**
- Geologic map of the **Picture Rock Hills** quadrangle, Juab County, Utah by M.A. Shubat, 22 p., 2 pl., 1/00 **MP-99-3**
- Geologic map of the **Pigeon Mountain** quadrangle, Box Elder County, Utah by L.L. Glick, D.M. Miller, 9 p., 2 pl., 1987 **M-94**
- Geologic map of the **Pilot Peak** quadrangle, Box Elder County, Utah and Elko County, Nevada, by D.M. Miller and A. P. Lush, 25 p., 2 pl., 1994 **M-160**
- Geologic map of the **Pine Canyon** quadrangle, Utah (Carbon Co.), by P.B. Anderson, 14 p., 2 pl., 1983 **M-72**
- Geologic map of **Pinon Point** quadrangle, Iron County, Utah by M.A. Siders, 12 p., 2 pl., 1985 **M-84**
- Geologic map of the **Pintura** quadrangle, Washington County, Utah, by Hugh A. Hurlow and Robert F. Biek, 20 p., 2 pl., ISBN 1-55791-596-2, 12/03, **M-196**
- Interim geologic map of the **Plain City** quadrangle, Weber County,
 Utah, by Kimm M. Harty and Mike Lowe, 2 pl. 1:24,000,
 9/05 **OFR-451**
- Geologic map of the **Podunk Creek** quadrangle, Kane County, Utah, by Terry L. Tilton, 18 p., 2 pl., 9/01, **MP-01-3**
- Geologic map of the **Porcupine Reservoir** quadrangle, Cache County, Utah by L. Berry, 17 p., 2 pl., 1989 **M-113**
- Interim geologic maps of the Clarkston and **Portage** quadrangles, Box Elder and Cache Counties, Utah, and Franklin and Oneida Counties, Idaho by R.F. Biek, R.Q. Oaks, Jr., S.U. Janecke, B.J. Solomon, and L.M.S. Berry, 91 p., 2 pl., 4/01 **OFR-381**
- Geologic map of the **Red Breaks** quadrangle, Garfield County, Utah by G.W. Weir and L.S. Beard, 5 p., 2 pl., 1990 **M-117**
- Geologic map of the **Red Knolls** quadrangle, Millard Co., Utah by L.F. Hintze and F.D. Davis, 10 p., 2 pl. 1992 **M-142**
- Geologic map of the **Redmond Canyon** quadrangle, Sanpete and Sevier Counties, Utah by G.C. Willis, 17 p., 2 pl., 1991

 M-138
- Interim geologic map of the **Richfield** quadrangle, Sevier County, Utah by G.C. Willis, 105 p., 2 pl., 9/94 **OFR-309**
- Geologic map of the **Richmond** quadrangle, Cache County, Utah by J. Brummer and J. McCalpin, 22 p., 2 pl., 1995 **MP-95-3**
- Geologic map of the **Roger Peak** quadrangle, Garfield County, Utah by G.W. Weir, V.S. Williams, L.S. Beard, 7 p., 2 pl., 1990
- Geologic map of the **Roy** 7.5' quadrangle, Weber and Davis Counties, Utah, by Dorothy Sack, 22 p., 2 pl., 1:24,000, ISBN 1-55791-723-X, 6/05, **MP-05-3**
- Interim geologic map of the **St. George** quadrangle, Washington County, Utah by J.M. Higgins and G.C. Willis, 108 p., 2 pl., 8/95 **OFR-323**
- Geologic map of the **Sage Valley** quadrangle, Juab County, by Donald L. Clark, 55 p., 2 pl., 12/03, **MP-03-2**
- Geologic map of **Salina** quadrangle Sevier County, Utah by G.C. Willis, 20 p., 2 pl., 1986 **M-83**
- Interim geologic map of the **Santa Clara** quadrangle, Washington County, Utah, by G.C. Willis and J.M. Higgins, 87 p., 2 pl., 12/96 **OFR-339**
- Geologic map of the **Saratoga Springs** 7.5' quadrangle, Utah County, Utah, by Robert F. Biek, 2 pl. 1:24,000, ISBN 1-55791-707-8, 12/04, **M-201**

- Interim geologic map of the **Scipio Lake** quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 **OFR-228**
- Interim geologic map of the **Scipio North** quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 **OFR-219**
- Geologic map of the **Scipio Pass** quadrangle, Millard County, Utah by R.B. Michaels and L.F. Hintze, 25 p., 2 pl., 1994

 M-164
- Interim geologic map of the **Scipio South** quadrangle, Millard County, Utah by L.F. Hintze, 1 pl., 11/91 **OFR-218**
- Interim geologic map of the **Scofield** quadrangle, Carbon, Emery, and Sanpete Counties, Utah, by S.P. Knowles, 2 pl., 11/96 **OFR-341**
- Provisional geologic map of **Sego Canyon** quadrangle, Grand County, Utah by G.C. Willis, 14 p., 2 pl., 1986 **M-89**
- Geologic map of the **Sheeppen Creek** quadrangle, Rich County, Utah by J.C. Coogan, 17 p., 3 pl., 1:24,000 & 1:48,000, 1997 MP-97-2
- Geologic map of the **Shivwits** quadrangle, Washington County, Utah, by L.F. Hintze and B.J. Hammond, 21 p., 2 pl., 1994 **M-153**
- Geologic map of the **Silver Peak** quadrangle, Iron County, Utah by M.A. Shubat and M.A. Siders, 13 p., 2 pl., 1988 **M-108**
- Geologic map of the **Smelter Knolls West** quadrangle, Millard County, Utah by L.F. Hintze, C.G. Oviatt, 21 p., 2 pl., 1993 **M-148**
- Provisional geologic map of the **Smithfield** quadrangle, Cache County, Utah by M. Lowe, C.L. Galloway, 18 p., 2 pl., 1993 **M-143**
- Geologic map of the **Smithsonian Butte** quadrangle, Washington County, Utah and Mohave County, Arizona, by David W. Moore and Edward G. Sable, 30 p., 2 pl., 6/01, ISBN 1-55791-651-9 **MP-01-1**
- Interim geologic map of the **Soldiers Pass** quadrangle, Utah County, Utah, by Robert F. Biek, Donald L. Clark, and Eric H. Christiansen, 23 p., 1 pl., 9/06 **OFR-484**
- Interim Geologic map of the **Spanish Fork** Quadrangle, Utah County, Utah, by Barry J. Solomon, Donald L. Clark, and Michael N. Machette, 29 p., 1 pl., 11/06 **OFR-488**
- Interim geologic map of the **Springdale East** quadrangle,
 Washington County, Utah by H.H. Doelling, G.C. Willis,
 B.J. Solomon, E.G. Sable, W.L. Hamilton, and L.P. Naylor
 II, 7/02, 20 p., 1 pl. **OFR-393**
- Interim geologic map of the **Springdale West** quadrangle, Washington County, Utah by G.C. Willis, H.H. Doelling, B.J. Solomon, and E.G. Sable, 7/02, 19 p., 1 pl., **OFR-394**
- Interim geologic map of the **Standardville** quadrangle, Carbon County, Utah, by R.E. Carroll, 1 pl., 1:24,000, 9/93

 OFR-299
- Interim geologic map of the **Steele Butte** quadrangle, Garfield County, Utah, by W.W. Whitlock, 1 pl., 9/93 **OFR-301**
- Geologic map of the **Sterling** quadrangle, Sanpete County, Utah by M.P. Weiss, 26 p., 2 pl., 1994 **M-159**
- Geologic map of the **Sunset Pass** quadrangle, Box Elder County, Utah by D.M. Miller and J.D. Schneyer, 14 p., 2 pl., 1994 **M-154**
- Geologic map of **Swasey Peak NW** quadrangle, Millard County, Utah by D. Sack, 16 p., 2 pl., 1994 **M-163**
- Geologic map of the **Tecoma** quadrangle, Box Elder County, Utah and Elko County, Nevada, by D.M. Miller and J.D. Schneyer, 8 p., 2 pl., 1985 **M-77**
- Interim geologic map of the **Temple of Sinawava** quadrangle, Washington County, Utah by H.H. Doelling, 7/02, 15 p., 1 pl., **OFR-396**
- The Wasatch Formation (**Temple Peak**) in the central Bear River Range, northern Utah by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 11/92 **CR-92-8**
- Geologic map of the **Tenmile Flat** quadrangle, Garfield County, Utah by G.W. Weir and L.S. Beard, 6 p., 2 pl., 1990 **M-118**
- Geologic map of the **Terrace Mountain East** quadrangle, Box Elder County, Utah, by Padhraig T. McCarthy and David M. Miller, 14 p., 2 pl., 1:24,000, 2/02, ISBN 1-55791-662-4 **MP-02-2**

- Geologic map of the **Terrace Mountain West** quadrangle, Box Elder County, Utah, David M. Miller and Padhrig T. McCarthy, 13 p. 2 pl., 2/02, ISBN 1-55791-663-2 **MP-02-3**
- Interim geologic maps of the Castle Cliff quadrangle and the east half of the **Terry Benches** quadrangle, Washington County, Utah and Mohave County, Arizona, by Janice M. Hayden, Lehi F. Hintze, and J. Buck Ehler, 15 p., 2 pl., 12/05 **OFR-457 & 464**
- Geologic map of the **Thatcher Mountain** quadrangle, Box Elder County, Utah by T.E. Jordan, M.D. Crittenden Jr., R.W. Allmendinger, and D.M. Miller, 10 p., 2 pl., 1988 **M-109**
- Geologic map of **The Barracks** quadrangle, Kane County, Utah, by E.G. Sable and H.H. Doelling, 11 p., 2 pl., 1993 **M-147**
- Geologic map of **The Divide** quadrangle, Washington County, Utah, by Janice M. Hayden, 32 p., 2 pl. 1:24,000, ISBN 1-55791-597-0, 2/04, **M-197**
- Interim geologic map of **The Guardian Angels** quadrangle, Washington County, Utah by G.C. Willis and M.D. Hylland, 7/02, 27 p., 1 pl., **OFR-395**
- Geologic map of the **Thistle** area, Utah County, Utah by I.J. Witkind and W.R. Page, 1983 **M-69**
- Geologic map of the **Tickville Spring** quadrangle, Salt Lake and Utah Counties, Utah, by Robert F. Biek, Barry J. Solomon, Jeffrey D. Keith, and Tracy W. Smith, 2 pl., 1:24,000, 11/05, ISBN 1-55791-735-3, 12/05, **M-214**
- The Wasatch Formation (**Tony Grove Creek**) in the central Bear River Range, northern Utah by R.Q. Oaks Jr., and T.R. Runnells, 79 p., 7 pl., 11/92 **CR-92-8**
- Interim geologic map of the **Valley City** quadrangle, Grand County, Utah, by H.H. Doelling, 64 p., 2 pl., 1:24,000, 9/97 **OFR-351**
- Interim geologic map of the **Veyo** quadrangle, Washington County, Utah, by Janice M. Higgins, 17 p., 1 pl., 1:24,000, 10/02 **OFR-401**
- Interim geologic map of **Virgin** quadrangle, Washington County, Utah, by Janice M. Hayden, 2 pl., 1/05 **OFR-442**
- Geologic map of the **Wales** quadrangle, Juab and Sanpete Counties, Utah, by Timothy F. Lawton and Malcolm P. Weiss, 29 p., 2 pl., 10/99 **MP-99-2**
- Preliminary geologic map of the **Warner Lake** quadrangle, Grand County, Utah, by Michael L. Ross, 18 p., 2 pl., 11/06 **OFR-497**
- Interim geologic map of the **Washington** quadrangle, Washington County, Utah by G.C. Willis and J.M. Higgins, 108 p., 2 pl., 1:24,000, 1995 **OFR-324**
- Geologic map of the **Washington Dome** quadrangle, Washington County, Utah, by Janice M. Hayden, 29 p., 2 pl., 1:24,000, isbn 1-55791-719-1, 5/05 **M-209**
- Interim geologic map of the **Wellsville** quadrangle, Cache County, Utah by K.S. and S.W. Barker, 17 p., 2 pl., 4/93 **CR-93-2**
- Interim geologic map of the **West Mountain** quadrangle, Utah County, Utah, by Donald L. Clark, 21 p., 1 pl., 9/06 **OFR-482**
- Interim geologic map of the **West Mountain Peak** quadrangle,
 Washington County, Utah, by Janice M. Hayden, Lehi F.
 Hintze, and J. Buck Ehler, 19 p., 1 pl., 12/05 **OFR-456**
- Interim geologic map of the **White Hills** quadrangle, Washington County, Utah by J.M. Higgins, 94 p., 2 pl., 9/97 **OFR-352**
- Interim geologic map of the **Williams Peak** quadrangle, Juab and Millard Counties, Utah, by L.F. Hintze, 1 pl., 11/91 **OFR-223**

30' X 60' QUADRANGLE MAPS

Interim geologic map of the **Beaver** 30' x 60' quadrangle, Beaver, Piute, Iron, and Garfield Counties, Utah, by Peter D. Rowley, Garrett S. Vice, Robert E. McDonald, John J. Anderson, Michael N. Machette, David J. Maxwell, E. Bart Ekren, Charles G. Cunningham, Thomas A. Steven, and Bruce R. Wardlaw, 27 p., 1 pl. 1:100,000, 9/05 OFR-454 **\$10.95**

Geologic map of the **Delta** 30' x 60' quadrangle and parts of the Lynndyl 30' x 60' quadrangle, northeast Millard County and parts of Juab, Sanpete, and Sevier Counties, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, 2 pl., 6/02, ISBN 1-55791-583-0, M-184 **\$8.90**

Geologic map of the **Delta** 30' x 60' quadrangle and part of the Lynndyl 30' x 60' quadrangle, northeast Millard County and parts of Juab, Sanpete, and Sevier Counties, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, CD (1:100,000), 6/05, ISBN 1-55791-731-0, M-206DM [CD contains GIS data] **\$19.95**

Progress report - Geologic map of the **Dutch John** 30' x 60' quadrangle, Utah, Colorado, Wyoming - year 3 of 3, compiled by Douglas A. Sprinkel, 3 pl., 1:62,500, 8/02, OFR-399 **\$15.00**

Interim geologic map of the **Dutch John** 30' x 60' quadrangle, Daggett and Uintah Counties, Utah, Moffat County, Colorado, and Sweetwater County, Wyoming, by Douglas A. Sprinkel, CD (3 pl., 1:100,000 [contains GIS data]), 12/06, OFR-491DM **\$19.95**

Interim geologic map of the **Escalante** and parts of the Loa and Hite Crossing 30' \times 60' quadrangles, Garfield and Kane Counties, Utah, by Hellmut H. Doelling and Grant C. Willis, 19 p., 2 pl., 2/99, OFR-368 \$7.70

Geologic map of the **Huntington** 30' x 60' quadrangle, Carbon, Emery, Grand and Uintah Counties, Utah, by Irving J. Witkind, (digitized from U.S. Geological Survey Miscellaneous Investigations Series Map I-1764 [1988]), scale 1:100,000, OFR-440DM, 12/04 [CD contains GIS data] **\$14.95**

Interim geologic map of the **Kanab** 30' x 60' quadrangle, Kane and Washington Counties, Utah, and Coconino and Mohave Counties, Arizona, by Hellmut H. Doelling, 11 p., 2 pl., 1:100,000, 2/99, OFR-366 **\$7.00**

Geologic map of the **La Sal** 30' x 60' quadrangle, San Juan, Wayne, and Garfield Counties, Utah, and Montrose and San Miguel Counties, Colorado, by Hellmut H. Doelling, 2 pl. scale 1:100,000, ISBN 1-55791-711-6, 10/04 M-205 **\$10.50**

Geologic Map of the **La Sal** 30' x 60' Quadrangle, San Juan, Wayne, and Garfield Counties, Utah, and Montrose and SanMiguel Counties, Colorado, Utah, by H.H. Doelling, (2 pl., 1:100,000, CD [contains GIS data]), ISBN 1-55791-752-3, 9/06, M-205DM **\$24.95**

Progress report, geologic map of the east half of the **Loa** 30' x 60' quadrangle, Emery, Garfield, and Wayne Counties, Utah (Year 1 of 2), by Hellmut H. Doelling and Paul A. Kuehne, 11 p., 1 pl., 1:62,500, 11/05 **\$7.25**

Geologic map of the **Lynndyl** 30' x 60' quadrangle, west-central Utah. 2005, digitized from USGS Miscellaneous Investigations Map I-1830 by E.H. Pampeyan, 1:100,000, 1989, CD [CD contains GIS data], ISBN 1-55791-712-4, 6/05, M-211DM **\$19.95**

Geologic map of the **Moab** and eastern part of the San Rafael Desert 30' x 60' quadrangles, Grand and Emery Counties, Utah, and Mesa County, Colorado, by Hellmut H. Doelling, 3 pl., scale 1:100,000, 8/01, M-180, ISBN 1-55791-579-2 **\$29.50**

Geologic map of the **Moab** and eastern part of the San Rafael Desert 30' x 60' quadrangles, Grand and Emery Counties, Utah, and

Mesa County, Colorado, by Hellmut H. Doelling, scale 1:100,000, CD [contains GIS data], 8/01, M-180DM, ISBN 1-55791-581-4 \$24.95

Witkind, I.J., and Weiss, M.P., 1991 (digitized 2002), Geologic map of the **Nephi** 30' x 60' quadrangle, Carbon, Emery, Juab, Sanpete, Utah and Wasatch Counties, Utah, scale 1:100,000 (digitized from U.S. Geological Survey Miscellaneous Investigations Map I-1937): Utah Geological Survey Map 189DM, CD [contains GIS data], 11/02, ISBN 1-55791-589-X, M-189DM **\$24.95**

Progress report: Geologic map of the **Ogden** 30' x 60' quadrangle, Utah and Wyoming, year 3 of 3, by James C. Coogan and Jon K. King, 30 p., 1 pl., 1:100,000, 2/01, OFR-380 **\$8.60**

Interim geologic map of the **SE part of the Panguitch** 30' x 60' quadrangle, Garfield and Kane Counties, Utah, by Hellmut H. Doelling and Grant C. Willis, 7 p., 1 pl., 1:100,000, 2/99, OFR-367 **\$3.60**

Geologic map of the **Price** 30' x 60' quadrangle, Carbon, Duchesne, Uintah, Utah, and Wasatch Counties, Utah, by M.P. Weiss, I.J. Witkind, and W.B. Cashion, 1990 (digital release 2003), CD [contains GIS data], 1:100,000, 12/03, M-198DM **\$24.95**

Progress report geologic map of the east part of the **Provo** 30' x 60' quadrangle, Utah (year 4 of a multi-year project), by Kurt N. Constenius and James C. Coogan, 22 p., 1 pl. !:62,500, 12/04, OFR-439 \$7.50

Progress report geologic map of the east part of the **Provo** 30' x 60' quadrangle, Utah and Wasatch Counties, Utah, by Kurt N. Constenius, James C. Coogan, and Robert F. Biek, 31 p., 1 pl., 1:62,500, 9/06, OFR-490 **\$7.25**

Geologic map of the **Richfield** 30' x 60' quadrangle, southeast Millard County and parts of Beaver, Piute, and Sevier Counties, Utah, by Lehi F. Hintze, Fitzhugh D. Davis, Peter D. Rowley, Charles G. Cunningham, Thomas A. Steven, and Grant C. Willis, 2 pl., 1: 100,000, ISBN 1-55791-595-4, 10/03, M-195 **\$8.90**

Interim geologic map ot the east half of the **Salina** 30' x 60' quadrangle, Emery, Sevier, and Wayne Counties, Utah, by Hellmut H. Doelling, 12 p., 1 pl. 1:62,500, 10/04, OFR-438 **\$7.95**

Geologic map of the **Salt Lake City** 30' x 60' quadrangle, north-central Utah and Uinta County, Wyoming, by Bruce Bryant, 1990 (digital version 2003), scale 1:100,000 (digitized from U.S. Geological Survey Miscellaneous Investigations Map I-1944), CD [contains GIS data}, 1/03, ISBN 1-55791-590-3, M-190DM **\$24.95**

Interim geologic map of the **San Rafael Desert** 30' x 60' quadrangle, Emery and Grand Counties, Utah, by Hellmut H. Doelling, 1 pl., 20 p., 1:100,000, 10/02, OFR-404 \$6.50

Geologic map of the **Smoky Mountain** 30' x 60' quadrangle, Kane and San Juan Counties, Utah and Coconino County, Arizona, by Hellmut H. Doelling and Grant C. Willis, 2 pl., 1:100,000, ISBN 1-55791-732-9, 5/06, M-213 **\$11.95**

Geologic map of the **Tule Valley** 30 x 60 quadrangle and parts of the Ely, Fish Springs, and Kern Mountains 30 x 60 quadrangles, northwest Millard County, Utah, by L.F. Hintze and F.D. Davis, 2 pl., 1:100,000, ISBN 1-55791-586-5, 10/02, Map 186 **\$8.90**

Geologic map of the **Tule Valley** 30' x 60' quadrangle and part of the Ely, Fish Springs, and Kern Mountains 30' x 60' quadrangles, northeast Millard County, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, scale 1:100,000 (CD [contains GIS data]), ISBN 1-55791-744-2, M-222DM **\$19.95**

Interim geologic map of the **Vernal** 30x60 quadrangle, Uintah and Duchesne Counties, Utah, and Moffat and Rio Blanco Counties,

Colorado, by Douglas A. Sprinkel, 2 pl., 1:100,000, 1/06, OFR-470 \$9.95

Geologic map of the **Wah Wah Mountains North** 30' x 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part of Beaver County, Utah, Lehi F. Hintze and Fitzhugh D. Davis, 2 pl. scale 1:100,000, 6/02, ISBN 1-55791-584-9, Map 182 **\$8.90**

Geologic map of the **Wah Wah Mountains North** 30' x 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part of Beaver County, Utah, by Lehi F. Hintze and Fitzhugh D. Davis, CD (2 pl., scale 1:100,000)[CD contains GIS data], ISBN 1-55791-713-2, 9/04, M-207DM **\$19.95**

Geologic map of **Westwater** 30' x 60' quadrangle, Grand and Uintah Counties, Utah and Garfield and Meas Counties, Colorado, by J.L. Gualtieri, (digitized from U.S. Geological Survey Miscellaneous Investigations Series Map I-1765 [1988]), scale 1:100,000, OFR-441DM, 12/04 [CD contains GIS data] **\$14.95**

CDs are available with all the **1:250,000** geologic maps of Utah (older USGS publications); other CDs have all the current **30' x 60'** geologic maps of Utah from USGS publications, UGS maps and Open-File Reports. Another CD contains the 4 quarters of the **geologic map of Utah** at 1:125,000 from the early 1960s. Historic maps like the Tintic Special Folio geologic maps are also available. All are in pdf format (Images only - not usable for GIS) **\$14.95** each

INDEX TO PUBLICATIONS BY COUNTY

The county name is followed by the publication code:

MO = Monograph series (discontinued)

B = Bulletin series

WRB = Water Resource Bulletin (discontinued)

M = Map series

SS = Special Study series
C = Circular series

MP = Miscellaneous Publication
PI = Public Information series
RI = Report of Investigation series
OFR = Open-File Report series

CR = Contract Report series (discontinued)

A publication is indexed only if a major part of a report or map is concerned with the county or a large portion of it.

- Beaver County: B-123; M-146, 182; SS-94; OFR-454
 Box Elder County: MO-2; B-115; B-116; WRB-25; M-53-A;
 M-53-B; M-77, 78, 79, 88, 91, 93, 94, 95, 96, 107, 109, 128, 129, 130, 136, 144, 145, 151, 154, 158, 160, 172, 194, 218; SS-35, 40, 59, 76, 84; C-101; MP-J; MP-88-1,88-3, 89-3, 99-6, 02-2, 02-3, 02-9, 05-1; PI-8; RI-211; OFR-82, 112, 342, 344, 345, 346, 347, 348, 349, 376, 376; DNR SP-1
- Cache County: B-128; M-12; M-53-A; M-53-B; M-88, 91, 113, 143, 172, 194; SS-62, SS-83, SS-90, 98, 101; MP-88-1; MP-88-3, 92-1, 95-3, 96-1, 02-8, 03-4; PI-46, 79; OFR-82, 174, 479; CR-91-15, 92-8, 93-2
- Carbon County: B-132; M-50; M-63; M-64; M-76, M-189DM, M-198DM; SS-49; SS-54; SS-69; SS-74; C-94, 100; MP-00-2; RI-180; RI-196; RI-210; RI-219; RI-225; RI-241; OFR-170; OFR-176A,B,C,D,E; OFR-181, 190, 192, 202, 203, 262, 299, 329, 335, 341; CR-92-3; CR-93-6
- Daggett County: MO-2; SS-62; MP-88-3; OFR-491DM
- Davis County: B-116; WRB-25; M-53-A; M-53-B; M-54-A; M-54-B; M-54-C; M-54-D; M-127, 200; SS-35, 40, 59, 62, 90, 95, 104; MP-J; MP-88-1; MP-88-2; MP-88-3; MP-00-1, 04-1, 05-3, 05-4; PI-2, 8, 16, 45; RI-218, 223, 251; OFR-82, 112, 151, 198, 419, 448; CR-91-3, 91-11, 92-7, 93-5, 95-1, 95-2, 95-3, 95-4
- **Duchesne County:** MO-2; M-198DM; SS-59; SS-62; SS-72; SS-106; C-86; C-90DF; MP-88-3, 96-2; RI-210, 238; OFR-100, 101, 335, 430, 470
- Emery County: B-109; B-113, 132, 134; M-63,64, 67, M-189DM; SS-55, 74, 112, 114; C-94, 100; MP-88-3; PI-65; RI-178, 194, 205, 219, 225; OFR-191, 192, 232, 317, 329, 331, 341, 391, 422; CR-92-3; CR-93-6
- Garfield County: MO-1; MO-2; M-65; M-80, 81, 82, 87, 90, 103, 104, 115, 116, 117, 118, 119, 120; C-93, 94, 95, 96, 99; MP-91-5; MP-92-2; MP-93-2; PI-49, PI-64; OFR-142, 149, 209, 244, 301, 362, 367, 368, 404, 406
- **Grand County:** MO-2; B-119; M-74, 89, 100, 102, 152, 155, 157, 168, 169, 171, 178, 180, 181, 183; SS-64, 65, 88, 107, 108, 113; C-84; C-99; MP-Q; MP-91-6; MP-92-2; MP-97-4; RI-184, 229; OFR-149, 167, 194, 232, 238, 286, 287, 307, 313, 351, 369, 404, 430, 496, 497; CR-91-5;
- Iron County: MO-1; B-125; WRB-27; M-80; M-81; M-84; M-85; M-103; M-104; M-108, 199; SS-61; SS-63; SS-81; SS-100, 103, 115; C-97; MP-88-3; MP-89-6; MP-90-2; MP-91-4; MP-93-1; MP-93-2, MP-06-4; RI-239, 243; RI-245, 246, 252; OFR-130; OFR-185-DF; OFR-189, 193, 360, 386, 387, 388, 476DM; CR-91-10;
- Juab County: M-124; M-132; M-134; M-135; M-137; M-161; M-170, 184, 185, M-189DM, 211DM; SS-53; SS-62; SS-77; SS-79, 88, 97; C-88; MP-88-1; MP-88-3; MP-90-1; MP95-1; MP-99-3, -4, -5, 03-2; RI-227; OFR-166, 199, 204, 215, 220, 223, 226, 383, 444; CR-91-6
- Kane County: MO-1; B-124; M-101; M-121; M-123; M-126; M-147; M-167, M-199, M-213; SS-99; C-93, 94, 95, 96, 118; MP-88-3; MP-89-5; MP-89-6; MP-01-3; MP-01-4; PI-37, 49, PI-64; RI-221; OFR-142, 149, 196, 314, 366, 367, 368, 371, 388

- Millard County: B-98, B-133; M-124; M-141; M-142; M-148; M-161, M-162, M-163, M-164, M-165, M-175, 182, 184, 186, 195, 206DM, 211DM, 222DM; SS-30, 47, 62, 70, 73, 79; MP-88-1; MP-88-3; MP-03-1, MP-06-6; OFR-134; OFR-183-DF, 184-DF, 217, 218, 219, 220, 221, 222, 223, 224, 225, 227, 228, 447; CR-91-6
- **Morgan County:** MO-2; B-93; M-53-A; M-54-B; M-54-C; SS-62; MP-88-1, MP-88-3, MP-04-4; RI-249; OFR-425, 426, 427, 480, 498
- **Piute County:** M-34; M-80; M-82; M-105; M-106; MP-88-3; MP-91-5; MP-93-2
- **Rich County:** M-58; MP-88-1; MP-88-3; MP-92-1; MP-97-1; MP-97-2, MP-06-1; OFR-425, 427, 479, 480; CR-91-15
- Salt Lake County: MO-2; B-114, 116, 126; WRB-25; M-52; M-54-A; M-54-B; M-54-C; M-54-D; M-55-A; M-55-B; M-55-C; M-55-D; M-177, M-214, M-190DM, M-208, M-210, M-210DM; SS-28, 34, 35, 40, 62, 85, 90, 91, 92, 104, 105, 111DM, 208, 210; MP-J; MP-88-1; MP-88-3; MP-93-4; MP-93-9, MP-02-7; MP-02-5, 05-7; PI-3, 5, 8, 9, 16, 18, 43, 60, 76, 86, 87; RI-139, 188, 189, 195; OFR-82, 112, 127, 152, 153, 200, 310, 415, 416, 424, 448; CR-91-8; CR-92-6; CR-93-1; CR-93-3; CR-93-5; CR-93-7; CR-93-8; DNR SP-1
- **San Juan County:** MO-2; B-119; B-122; M-74; M-87, M-213; SS-64; SS-86; C-84; MP-89-5; MP-92-2; MP-93-3; PI-14, 34; RI-184; RI-202; RI-230; OFR-149, 156, 232, 443; CR-91-4:
- Sanpete County: M-28, 56, 64, 67, 98, 134, 138, 139, 159, 174, 184, 185, 188, 189DM; SS-54, 55, 97, 102, 114; MP-88-3; MP-93-2; MP-95-1; RI-225; OFR-192, 204, 233, 300, 341, 372, 383; CR-94-5; CR-94-10
- **Sevier County:** M-64; M-83; M-106; M-112; M-114; M-138, 184; SS-55, 74, 89, 90, 110, 114; C-94; MP-88-3; MP-93-2; PI-47; RI-219; RI-225; OFR-309, 317, 331;
- **Summit County:** MO-2; M-156; WRB-28, 29; SS-59; SS-66, SS-82; C-94; MP-88-1; MP-88-3; PI-7, 9, 31; RI-219; OFR-241, 320, 321, 382, 425
- **Tooele County:** B-116; M-54-A; M-54-C; M-54-D; M-140, 150, 161, 166; SS-51, 59, 62, 90; MP-J; MP-88-1, 88-3, 93-5; PI-44, 80; RI-187, 200, 235; OFR-82, 112, 152, 153, 153-DF, 296, 318, 450; CR-91-6;
- **Uintah County:** MO-2; M-16; M-50, M-198DM; SS-59; SS-65; SS-106; C-86; C-90DF; MP-88-3, 96-2, 00-2, 04-2; RI-201; OFR-335, 407, 411, 420, 421, 430, 470, 491DM
- Utah County: MO-2; M-52; M-55-A; M-55-B; M-55-C; M-55-D, M-208, M-210, M-210DM, M-214; SS-62, 75, 78, 85, 93, 105, 109; MP-88-1; MP-88-3; MP-90-1; MP-02-10; PI-11; PI-21; RI-197, 213, 247; OFR-153, 181, 186, 199, 217, 221, 400, 439, 448, 452, 470, 482, 484, 486, 488, 490; CR-92-6; CR-93-3
- Wasatch County: MO-2; M-52; M-55-A; M-55-B; M-55-C; M-55-D, M-192, M-198DM; SS-59; SS-62; MP-88-1; MP-88-3; MP-03-5, MP-05-9; PI-53; RI-214; RI-232; OFR-319, 335, 370, 452, 490
- Washington County: MO-1; M-14; M-153, 167, 187, 191, 196, 197, 204, 209; WRB-26; SS-67; SS-87; C-88; MP-88-3; MP-89-6; MP-93-1; MP95-2; MP-01-1, MP-06-4; PI-13; PI-15; PI-20; PI-35; PI-63; RI-199, 206; OFR-193, 323, 324, 340, 342, 361, 363, 366, 375, 386, 387, 388, 393, 394, 395, 396, 401, 417, 442, 446, 456, 476; CR-92-7, OFR-456
- Wayne County: MO-2; M-74; M-87; M-114; SS-45; C-94; MP-91-5; MP-93-2; MP-01-5; OFR-149, 179, 362; CR-93-6
- Weber County: B-116; B-128; M-53-A,B; M-176, 200; SS-59; SS-76, 87, 90, 105; C-102; MP-J; MP-88-1; MP-88-3; MP-92-1, 04-1, 05-3; Pl-1, 36, 45; Rl-163, 203, 211, 237, 240; OFR-82, 112, 197, 419, 426, 451, 479, 480, 498; CR-92-7;
- Utah (State-wide coverage): B-106; B-111, 127, 129DF, 130, 131; M-A-1; M-A-2; M-20, 37, 43, 47, 61, 68, 71, 92, 110, 111, 122, 149, 179DM, 193DM, 203DM, 215DM; SS-80, 116; C-72, 79, 80, 81, 82, 83, 92, 98; MP-M; MP-N; MP-S; MP-87-2; MP-87-4; MP-87-6; MP-87-8; MP-89-7; MP-91-1; MP-95-4; MP-99-1; MP-03-3; PI-4, 6, 10, 12, 19, 22, 23, 29, 33, 48, 49, 50, 51, 62, 67, 68, 69, 71; RI-217; RI-231, 236, 248; OFR-109, 115, 132, 159, 168; OFR-175; OFR-210; OFR-211; OFR-311, OFR-327; OFR-373, OFR-468; CR-91-7; CR-97-1; BYU-3; BYU-7

AUTHOR INDEX

Authors are listed alphabetically, followed by the publication number (series codes below).

MO = Monograph series (discontinued)

B = Bulletin series

WRB = Water Resource Bull. (discontinued)

M = Map series

SS = Special Study series

C = Circular series

MP = Miscellaneous Publications PI = Public Information series

RI = Report of Investigation series

OFR = Open-File Report series

CR = Contract Report series

(discontinued)

Adams, R.D.: OFR-412 Adan, S.M.: MP-93-4 Allison, M.L.: C-93

Allmendinger, R.W.: M-107, 109, 128

Anderson, D.S.: OFR-483

Anderson, J.J.: M-80, 81, 82, 103, 104; MP-

93-2; OFR-244

Anderson, L.R.: MP-02-11; CR-91-11;

OFR433

Anderson, P.B.: M-72; PI-22; OFR-327DF, 390, 412, 460; CR-91-12; UGA-28, 29

Anderson, R.E.: MP-89-6

Arabasz, W.J.: C-88; MP89-1; MP-87-7;

MP-91-1; OFR-168; CR-92-1

Ashland, F.X.: WRB-28; SS-105; PI-53; RI-

232, 248; OFR-410, 424, 448

Atwood, G.: M-73; MP-00-1, 06-9; RI-202;

Auby, W.L.: M-135 Baer, J.L.: OFR-181

Bankey, V.: M-122

Banks, R.L.: M-134; M-185

Barry, LMS: M-194

Barwood, Henrt: MP-99-6

Batatian, L.D.: MP-03-6

Baty, R.S. Jr.: RI-188

Beard, L.S.: M-115, 116, 117, 118, 119, 120

Bemis, G.: OFR-200

Bereskin, S.R.: MP-04-2; OFR-411

Berry, L: M-113

Best, M.G.: SS-61; OFR-177, 178, 179

Biek, R.F.: M-137,185, 187, 191, 192, 194, 196, 201, 202, 208, 210, 210DM, 214;

PI-63, 66; OFR-375, 386, 387, 388, 402, 403, 442, 452, 484, 486, 490

Billingsley, G.: M-87

Birkeland, P.W.: MP-91-3; MP-89-7

Bischoff, J.E.: CR-94-8

Bishop, C.E.: B-132; WRB-27, 28; SS-94, 101, 102, 108, 113, 117; C-93; RI-199, 221, 230, 240, 243, 245, 246, 247, 249; OFR-153, 153-DF, 176, 189, 207,

319

Black, B.D.: M-149, 193DM; SS-75, 85, 88, 90, 91, 92, 93, 98; C-88; PI-43, 44, 45, 46; RI-216, 218, 219, 220; OFR-318

Blackett, R.E.: B-132; SS-81; C-93, 97;

MP-91-4; PI-32, 37; RI-221, 227, 252; OFR-153, 189, 207, 311, 314, 335, 397

Bodily, D.M.: RI-226

Bon, R.L.: M-215DM; SS-118; C-91, 98; MP-01-2; PI-12, 31, 33, 61, 68; OFR-

398, 405, 468 Bradley, L.A.: MP-05-8

Bradley, M.D.: OFR-382 Brandt, C.J.: B-124; RI-221

Breed, W.J.: M-87

Broughton, J.M.: B-130

Brown, E.D.: MP-89-1

Brown, K.W.: B-119; M-179DM

Bruhn, R.L.: SS-59; MP-05-9; OFR-186

Bryant, Bruce: M-190DM Brummer, J.: MP95-3

Budding, K.E.: B-121, 123; SS-67, 75

Buess, S.S.: M-79

Bugden, M.H.: B-121; MP-89-3; PI-7, 9,

13, 20

Bullock, K.C.: SS-53 Bunnell, M.D.: SS-69

Burk, Neil: MP-05-7; SS-117

Burke, R.B.: MP-00-1

Butler, M.: MP-03-3; MP-03-5, 04-1, 04-4,

05-1

Callaghan, E.: M-34;

Campbell, J.A.: M-54-D

Cannon, S.H.: MP-89-2

Carey, R.: C-88

Carroll, R.E.: OFR-299

Case, W.F.: B-126; M-127; MP-00-1; PI-69, 70, 74; RI-197, 206; OFR-82, 127,

373, 413

Chan, M.A.: MP-91-6; CR-93-1; PI-77

Chapman, D.S.: OFR-189

Chenoweth, W.L.: MP-93-3; OFR-188; CR-

91-4

Chidsey, T.C. Jr.: M-203DM; PI-22; RI-221; C-83, 86, 93; OFR-321, 327DF, 390,

411, 412; UGA-28

Chitwood, J.P.: M-152

Christenson, G.E.: M-111, 193DM; SS-64, 68; C-79, 88; MP-89-6, 99-4, 03-6; PI-29; RI-189, 195, 199, 218;

OFR-109, 197, 198, 302

Christiansen, E.H.: MP-89-5; CR-91-6; OFR-484, 486

Clark, D.L.: M-132, MP-03-2, OFR-482, 484, 486, 488

Clem, K.M.: B-119; SS-65; RI-196, 200;

Cole, R.D.: MP-97-4 Conroy, L.: M-55-C

Constenius, K.N.: OFR-439, 490

Coogan, J.C.: MP-97-1; MP-97-2; OFR-380, 425, 426, 427, 439, 479, 480, 490, 498

Cook, E.F.: M-14

Cook, K.L.: M-37, 122 Copfer, T.J.: OFR-450

Copier, 1.J., OFR-450

Crittenden, M.D. Jr.: M-107, 109 Culham, W.E.: OFR-420, 421

Cumain share C.C. M.405, 401

Cunningham, C.G.: M-105, 106, 195 Currey, D.R.: M-73

Currie, B.S.: OFR-492

Dallmeyer, R.D.: OFR-166

Davidson, J.P.: MP-92-2

Davies, S.F.: M-166

Davies, S.F., IVI-100

Davis, F.D.: B-124, 133; M-53-A, 54-A, 54-D, 55-A, 55-D, 121, 123, 141, 142, 165, 177, 182, 184, 186, 195, 206DM, 207DM, 222DM; MP-00-1; OFR-149,

447

Deino, A.: MP-89-5; OFR-169

Deo, M.D.: OFR-411

DePangher, M.: M-122; CR-97-1

Dewey, J.A.: OFR-412

101, 102, 123, 126, 127, 140, 147, 155, 164, 168, 169, 171, 178, 180, 181, 183,

205, 205DM, 213; SS- 49; C-89; MP-88-2, MP-Q; MP-00-1; OFR-147, 351, 366, 367, 368, 393, 394, 396, 404,

438, 453

DuRoss, C.B.: SS-115; RI-253

Eaton, J.G.: MP-02-4 Eblen, J. S.: CR-95-3

Edgerton, D.A.: CR-97-1 Ege, C.L.: MP-05-5

Ehler, J.B.: OFR-456, OFR-457 & 464

Eisinger, C.: C-99; OFR-360

Eldredge, S.N.: MP-89-3; RI-202, 217; PI-5, 14, 34, 38, 40, 48, 72, 87; OFR-

211A, 211B, 211C

Evans, J.P.:MP-96-1; OFR-450; CR-91-15

Everett, B.H.: OFR-169

Everitt, B.L.: SS-51;

Felger, T.J.: M-161; MP-99-5

Finerfrock, D.L.: SS-85

Fleming, R.W.: SS-97

Fong, A.W.: MP95-1

Forman, S.L.: MP-89-7, MP-02-9, 05-8

Foster, J.R.: SS-99

Forster, C.B.: C-97; OFR-189, 389

Forster, R.R.: OFR-446 Foster, D.A.: B-120; RI-205

Galloway, C.L.: M-143 Gans, P.B.: SS-59

Garner, A.: MP-96-2

Garr, J: MP-05-8 Gerhard, L.C.: MP-00-1

Gill, H.E.: SS-66; SS-68; SS-92

Gillette, D.D.: C-96; MP99-1; CUP-1 Giraud, R.E.: SS-98, 110; MP-05-6; RI-

251, OFR-448

Glick, L.L.: M-93, 94, 95, 96 Gloyn, R.W.: B-132; M-215DM; SS-86;

C-91, 98; RI-227; OFR-325

Godfrey, A.E.: PI-54

Goldstrand, P.M.: OFR-193; MP-90-2

Gourley, C.: SS-63; Goydas, M.: OFR-167

Graham, R.L.: MO-1

Grant, S.K.: OFR-130; OFR-178; MP-95-2 Grant, T.C.: M-81

Gray, E.F.: M-37 Grayson, D.K.: B-130

Gurgel, K.D.: B-118; SS-59, 61, 62

Gustin, C.: OFR-391

Gwynn, J.W.: B-116, 132; WRB-25; C-87; MP-00-1, 06-6; PI-39, 51, 86; RI-139

184, 200, 201, 210, 211, 241; OFR-112, 316DF; DNR SP-1

Haller, K.M.: MP-91-3

Halling, M.W.: MP-02-11

Hamblin, A.H.: SS-99

Hammond, B.J.: M-153; OFR-212

Hand, J.S.: M-127; M-155; OFR-176

Hansen, A.R.: MP-00-1 Hanson, J.A.: C-100

Harp, E.L.: C-88

Harris, N.B.: OFR-483

Harty, K.M.: M-110, 111, 133, 170; SS-104; RI-203; OFR-451

Hatfield, S.C.: SS-119

Hayden, J.M.: M-197; M-204; M-209, OFR-456, OFR-457 & 464, 488

Hayden, M.C.: SS-99; C-96

Hecker, S: B-127; M-110, 127, 193DM; MP-00-1; OFR-264DF Heizler, M.T.: MP-92-2

378, 401

Hereford, R.: OFR-142 Higgins, J.M.: OFR-323, 324, 339, 363,

Hintze, L.F.: B-133; M-A1; M-141, 142, 146, 148, 153, 164, 179DM, 182, 184, 186, 195, 206DM, 207DM, 222DM;

OFR-147, 177, 178, 179, 217, 218, 219, 220, 221, 223, 224, 225, 227,

228, 354, 355, 356, 357, 207DM, 445;

OFR-456, OFR-457 & Lorenz, D.M.: OFR-420, 421 Nava, S.J.: C-88; CR-92-1; 464, BYU-3; BYU-7 Loucks, M.: CR-92-6 Nelson, A.R.: SS-62; MP-05-8 Lowe, Mike: WRB-27, 28; M-143, 174, Holmes, D.C.:MP-96-1 176, 192, 200, 218; SS-95, 100, 101, Howard, D.G.: MP-99-6 Hozik, M.J.: SS-119 102, 104, 113, 117; C-88, 99, 102; Nelson, S.T.: M-114; MP-92-2 Hucka, B.P.: SS-74, 112, 114, 118; C-94, $\mathsf{MP}\text{-}02\text{-}8,\, 02\text{-}10,\, 03\text{-}1,\, 03\text{-}3,\, 03\text{-}5,\, 04\text{-}1,\\$ Nethercott, M: M-76 100; RI-225; OFR-170, 171, 190, 202, Neuffer, D.P.: MP-05-9 04-3, 04-4, 05-1, 05-7, 05-8, 06-1, 06-4; 203, 317, 317DF, 329, 331 RI-235, 237, 238, 239, 240; OFR-151, Newman, S.L.: MP-91-6 Hultquist, J.D.: SS-85 197, 198, 319, 419, 451, 452 Nielson, D.L.: SS-85 Hunt, Gary: SS-115 Lund, W.R.: B-126; B-134; SS-66, 68, 72, Nielson, R.L.: MP-91-7 Hunt, J.M.: B-130 75, 88, 92, 93, 115, 119; MP-05-2; C-Noller, J.S.: OFR-209 Huntoon, P.W.: B-122; M-87 85; RI-187, 206, 233; OFR-477 Oaks, R.Q. Jr.: M-194; CR-92-8 Hurlow, H.A.: WRB-26, 29; M-196; SS-Lush, A.P.: M-144; M-160 Oberhansley, G.G.: M-56 Lutz, S.J.: CR-92-3; 103, 108, 109, 113; C-101; MP-03-3; O'Brien, E.H.: PI-72 RI-254; OFR-375, 419, 436 Mabey, D.R.: B-123; M-73, 122; MP-00-1; Hylland, M.D.: M-193DM, M-192; SS-95, OFR-109 CR-93-8 107; C-92; PI-53; RI-232; OFR-319, Mabey, M.A.: OFR-159 Olsen, C.M.: OFR-336, 391, 413 371, 388, 395 Machette, M.N.: M-170; MP-88-1, 89-7, 91-O'Neal, R.: OFR-493 Hylland, R.L.: PI-42 3: OFR-488 livari, T.A.: M-104 Madsen, D.B.: B-130; C-95 Jackson, M.D.: SS-78; OFR-209 Madsen, Jr., J.H.: B-109, MP-00-2 79; OFR-251, 445 James, L.P.: B-114; CR-91-7 Marlatt, G.: CR-91-5 Owens, R.L.: MP-90-1; Janecke, S.U.: M-194 Marty, Joe: MP-99-6 Pampeyan, E.H.: M-211DM Jarva, J.L.: OFR-264DF Mathewson, C.C.: CR-91-11 Parnell, J.: CR-92-4; Jensen, L.J.: M-53-B; M-54-B; M-55-B Mattox, S.R.: M-98, 139; MP-91-5; MP-01-5 Jensen: M.E.: M-127, 140, 151, 173; MP-Mattson, Ann: OFR-390 Matyjasik, M.: OFR-419 Personius, S.F.: SS-76: MP-05-8 00 - 1Jensen, N.R.: OFR-300 May, F.E.: MP-91-6 Peterson, D.: OFR-233 Jeppson, R.W.: RI-188 Mayes, B.H.: WRB-28; SS-88, 92, 98; OFR-Pierson, J.S.: OFR-492 Johnson, A.: MP-04-3, 04-4, 05-1, 05-7. 06-210, 325; RI-222, 224, 231, 236 Prevedel, D.A.: PI-54 1, 06-4 Mayo, A.L.: MP-00-1; CR-92-6; Price, D.: M-53-B; M-54-B, C; Johnson, Justin: MP-05-7. 06-1, 06-4 McBride, J.H.: OFR-459, 493 Quade, J.: B-130 Johnston, J.M.: CR-92-5; McCalpin, J.P.: SS-83; MP88-1, 95-3, 96-1, Radkins, H: OFR-152 Jordan, T.E.: M-107; M-109; M-128; M-02-7, 02-9, 03-4 McCarley, L.A.: MP-00-1 Rasely, R.C.: C-88 Kaliser, B.N.: B-93; SS-51; MP-88-3; McCarthy, P.T.: MP-02-2, MP-02-3 Reading, R.W.: PI-54 McClure, K.: MP-04-2; OFR-390, 411, 412 MP-89-4; Reid, J.E.: CR-91-13 Keaton, J.R.: MP-02-11; McDermott, J.G.: M-185 Rhode, D.: B-130 Keach, R.W.: OFR-493 McDonald, G.N.: M-193DM; SS-111DM, Rice, J.D.: CR-94-10 Keith, A.C.: OFR-170, 171, 176; RI-219 115; RI-242, 244, 250; OFR-369, 424, Keith, J.D.: SS-61; OFR-166; OFR-199; M-448 06-4 214 McIntosh, W.S.: B-125 Riordan, R.F: MP-01-2 Kerns, R.L. Jr.: M-55-D McNeil, B.R.: CR-92-7 Ritzma, H.R.: M-47; M-50 Kim, C.S.: OFR-166; OFR-199 McPherson, M.L.: OFR-492 Robinson, J.P.: M-140 King, J.K.: M-173; MP-99-5; MP-00-1; Mehnert, H.H.: M-105; M-106 OFR-380, 498 Merrell, H.W.: OFR-156 Rogers, J.L.: SS-62 Kinney, D.M.: M-16 Messenger, H.M.: M-140 Kirby, S.M.: SS-115; RI-253, 254; M-218; Michaels, R.B.: M-164 10: Miller, D.M.: M-77, 78, 93, 94, 95, 96, 109, MP-06-1 Ross, H.P.: C-97; MP-91-4; Kitzmiller II, J.M.: M-67 128, 129, 130, 136, 144, 145, 154, 158, Klauk, R.H.: SS-63, 68, 71; MP-00-1, 05-8; 160; MP-02-2, MP-02-3; SS-59; OFR-344, 345, 346, 347, 348, 349 RI-212, 214 Miller, E.L.: SS-59 Miller, G.F.: MP-89-7 195, 199; OFR-454 Runnells, T.R.: CR-92-8 Kneedy, J.L.: MP-02-10 Knowles, S.P.: OFR-341 Koebbe, J.: OFR-392 Milligan, M.A.: PI-57, 65 Ryer, T.A.: OFR-412 Koepsell, R.J.: OFR-458 Mitra, G.: MP-98-1; OFR-444 Kohler, W.: MP-02-11 Monn, W.D.: OFR-459 01-1; OFR-393, 394 Kowallis, B.J.: MP-89-5; OFR-166; OFR-Monson, B.: CR-92-4; Montgomery, J.R.: M-37 MP-05-3, 05-4 169 Moore, D.W.: M-199; MP-01-1 Kneedt, J.L.: MP-02-10; M-218 Krahulec, Ken: M-215DM Morgan, C.D.: B-132; M-178; SS-106; C-Krukowski, S.T.: MP-01-2 84, 86, 90DF; MP-04-2; OFR-232, Schmitt, D.N.: B-130 Kuehne, P.A,: OFR-453 307, 320, 407, 411, 430 Kuntz, M.A.: SS-61 Morgan, S.K.: MP-92-1 Schuster, G.T.: OFR-152 Kurlich, R.A. III: OFR-244 Mork, A.R.: M-125 Schwartz, D.P.: SS-75; SS-92 Laes, D.Y.M.: M-179DM Morris, T.H.: MP-96-2; OFR-412, 459, 493 Serpa, L.: CR-97-1 Sewell, R.E.: SS-64 Kwon, S.: OFR-444 Morton, L.B.: M-90 Laine, M.D.: C-83; C-86 Moulton, F.C.; M-55-D Shaver, M.W.III: B-130 Langrock, Holly: OFR-344, 347, 348 Mullen, M.: OFR-493 Schamel, S.: OFR-461, 499 Lawton, T.F.: MP-99-2 Mulvey, W.E.: M-170, 181; SS-72, 75, 107; Shroder, J.F.: SS-64 C-88; MP-00-1; RI-212, 214, 223; Lee, J.J.: OFR-186 OFR-211-C; OFR-238 Leetar Lessig, H.D.: CR-91-8 Murchison, S.B.: MP-00-1 Linpei, Cui: SS-85 Murphy, B.E.: M-79 Shuey, R.T.: M-28 Lips, E.W.: CR-93-3 Murphy, M.: OFR-152

Naeser, C.W.: M-105; M-106

Nash, W.P.: CR-91-9

Livingston, S.D.: B-130

Longman, M.W.: OFR-458

Nelson, C.V: MP-03-6; OFR-197; OFR-Olig, S.S.(J.): SS-88; C-88; OFR-302; Oviatt, C.G.: B-122, 130; M-79, 88, 91, 148, 156, 158, 161; SS-64, 70, 73, 77, Parry, W.T.: MP-93-5; PI-77; OFR-161; Pechmann, J.C.: C-88; MP89-1; CR-92-1 Quick, J.C.: SS-112, 114, 118; C-100 Riding, R.: MP-04-3, 04-4, 05-1, 05-7, 06-1, Robison, R.M.: OFR-197; OFR-198; Rollins, K.M.: MP-90-1; MP-93-4; CR-91-Ross, M.L.: M-168, 171, 181, OFR-496, Rowley, P.D.: M-82, 103, 104, 105, 106, Sable, E.G.: M-126; M-147; M-167; MP-Sack, D: M-124; M-150, 161, 162, 163; Sanderson, I.D.: MP-02-8, 02-10, 03-1, 03-Schneyer, J.D.: M-77; M-144; M-154 Shubat, M.A.: B-125; M-108; SS-81; MP-91-4; MP-99-3, -4, -5; RI-200, 209; OFR-153, OFR-182DF, 189, 207, 325 Siders, M.A.: M-84; M-85; M-108; M-131 Silva, W.J.: SS-111DM; MP-93-9; MP-02-5 Slossen, J.E.: MP-88-3

UTAH GEOLOGICAL SURVEY - 29

Skelton, R.K.: CR-95-1 Smith, A.D.: B-120; M-63, 64, 65; SS-49, 55; OFR-88, OFR-176 Smith, Curtis: OFR-406 Smith, H.A.: CR-93-5 Smith, J.T.: M-37 Smith, M.R.: MP-87-2; MP-87-4; MP-87-8; PI-57 Smith, R.B.: CR-92-7 Smith, S.W.: OFR-151 Smith, T.W.: M-214 Snelgrove, S.H.: OFR-389, 390 Snyder, N.P.: M-174, 175,176; RI-229 Solomon, B.J.: M-166, 172, 194, 214; SS-71, 85, 87, 88, 89, 90, 111DM; C-81, 88; PI-18, 21, 35, 36, 46, 47, 75; OFR-175DF, 211D, 296, 318, 340, 384, 393, 394, 488 Sommer, S.N.: M-63, 64, 65; SS-67; C-94; RI-205, 225, 226; OFR-170, 171, 317DF, 329, 331 Sorensen, D.: C-102 Spitzley, J.E.: CR-94-9 Sprinkel, D.A.: B-129DF; M-179DM, 185, 188; SS-97; C-81; C-90DF; RI-227; OFR-175-DF, 211-D, 317DF, 331, 399, 432, 470, 491; UGA-28, 29 Stafford, T.W., Jr.: CR-93-4 Steven, T.A.: M-105, 106, 195 Stokes, W.L.: M-43; MP-E; MP-J; MP-S Stone, D.S.: MP-93-8 Stowe, C.H.: B-106, 111: C-63 Sturm, P.A.: WRB-25; RI-200

Sullivan, J.T.: SS-62 Tabet, D.E.: M-226DM; B-132; SS-112, 114, 118; C-91, 93, 94, 98, 100; RI-225; OFR-317, 317DF, 329, 331, 362 Taylor, T.W.: SS-69 Taylor, W.J.: MP-93-1 Thompson, A.J.B.: MP-91-2; Tilton, T.L.: MP-01-3; MP-01-4 Titus, A.L.: B-131; SS-99 Tripp, B.T.; B-132; M-140; SS-84, 116; C-82, 84; MP-01-2; PI-17; RI-194, 200, 227; OFR-100, 101, 153, 207, 210 Tripp, C.N.: OFR-150, 160, 191, 192; CR-93-6; Untermann, B.R.: M-16 Untermann, G.E.: M-16 Utah State University: PI-10 Valenti, G.L.: M-58 Vice. Garrett: SS-115 Waanders, G.L.: SS-97 Waite, K.A.: C-90DF Wakefield, S.I.: M-203DM, 215DM, 226DM; SS-114, 118; PI-68; RI-224; OFR-397, 398, 405, 468 Wallace, Janae: WRB-27; SS-100, 101, 102, 113; MP-02-10, 03-3, 04-1, 04-4, 05-1, 05-7, 06-1, 06-4; RI-235, 237, 239 Wannamaker, P.E.: CR-92-5 Weaver, C.L.: M-146 Webster, G.D.: B-128 Weir, G.W.: M-115, 117, 118, 119, 120 Weiss, M.P.: M-159, 185,188, 189DM; SS-

97; MP-99-2; Welsh, J.E.: M-192; OFR-370 Wells, M.L.: OFR-342 Welles, S.P.: MP-00-2 West, M.W.: SS-82 Whelan, J.A.: SS-57 Whitlock, W.W.: OFR-301 Whitney, E.M.: RI-226 Wilkerson, C.M.: MP-89-3; PI-5, 7, 19, 50, 60 Williams, S.R.: OFR-151; CR-91-3 Williams, T.: CR-91-10; Williams, V.S.: M-115; M-116 Willis, G.C.: M-83, 89, 112, 127, 138, 157, 168, 179DM, 195; C-89; MP97-4; MP-00-1; PI-56; RI-213; OFR-147, 309, 323, 324, 339, 367, 368, 393, 394, 395, 443DM Wilson, J.R.: MP-92-3; MP-95-4 Wilson, P.N.: MP-93-5; OFR-161; Winterfeld, G.F.: SS-99 Witkind, I.J., : M-189DM Wong, I.G.: MP-93-9; MP-02-5; PI-76 Yonkee, W.A.: M-155, 200; C-84; MP-00-Youd, T.L.: OFR-159

SUBJECT LISTING

Publications are listed by subject only if the majority of the publication is in the subject area. Many of the subjects are covered to varying extent in more generalized works such as the county reports.

The subject is followed by the publication code:

MO = Monograph series (discontinued)

B = Bulletin series

WRB = Water Resource Bulletin (discontinued)

M = Map series

SS = Special Study series
C = Circular series

MP = Miscellaneous Publications
PI = Public Information series
RI = Report of Investigation series
OFR = Open-File Report series

CR = Contract Report series (discontinued)

- ANTELOPE ISLAND: M-127; MP88-2, 89-7, 91-3, 91-5, 92-2, 92-3, 93-5, 00-1, 06-9; OFR-193
- COAL & COALBED METHANE: MO-1; B- 118, 120; B-124, 129DF, 132; M-65, 68, 226DM; SS-55, 69, 74, 112, 114; C-80, 93, 94, 100; PI-37; RI-205, 210, 219, 221, 225, 226, 241; OFR-88, 160, 170, 171, 176, 190, 202, 203, 314, 329, 341, 362; 449
- DIGITAL PRODUCTS: B-129DF; M-179DM, M-180DM, M-189D, M-190DM, 193DM 215DM; SS-101, 102; C-90DF; MP-02-1, 02-5, 02-6, 02-11; OFR-82DF; OFR-87DF; OFR-153DF; OFR-175DF; OFR-182DF; OFR-183DF; OFR-184DF; OFR-264DF, OFR-326DF, OFR-327DF; OFR-389, 390, 391, 397, 413, 420, 421; CR-92-2DF
- EARTHQUAKES (technical information): B-126, 127, 134; M-170, 172; SS-51, 75, 76, 78, 83, 88, 92, 93, 98, 111DM; C-79, 88; MP-N; MP-88-1; MP89-1; MP-89-6; MP-91-1; MP-93-4; MP-93-9; MP-02-5; MP-02-7, MP-02-9, 03-4, 03-6, 05-2; RI-248; OFR-152, 159, 168, 182DF, 186, 264, 302, 384, 424; CR-91-15; CR-92-1; CR-92-7; CR-93-7; CR-93-8
- EARTHQUAKES (Information for non-geologists): MP-91-1; AIPG-1 (See "Other Pubs"); PI-1, 2, 3, 6, 10, 11, 29, 38, 40, 48, 69, 70, 81, 82, 83; OFR-211A. 384
- ENGINEERING GEOLOGY/MULTIHAZARD STUDIES: B- 126; M- 170; SS-62, 66, 68, 72, 78, 83, 88, 93, 95, 107, 110, 115; C-79, 81, 88, 92, 98; MP-88-1; MP89-1, 90-1, 02-7, 02-9, 03-6; PI-75; RI-163, 165, 167, 175, 176, 177, 181, 182, 187, 188, 189, 190, 198, 199, 203, 204, 206, 208, 212, 215, 216, 218, 220, 223, 224, 231, 232, 235, 236, 253; OFR-132, 159, 175DF, 182DF, 197, 198, 211, 238, 254, 264DF, 296, 318, 319, 340, 424; CR-91-10; CR-93-3; CR-93-4, CR-95-2, 95-2, 95-3, 95-4; AIPG-1; most 7½-minute quadrangle maps cover hazards in the area (refer to MAP LIST for 7.5-minute maps)
- FERRON SANDSTONE: B-118; M-64; SS-74; OFR-160, 191, 192, 329, 389, 390, 391, 392, 412, 429; CR-91-12; ATLAS-1 (see "Other Pubs")
- GEMS and FOSSILS: B-109; B-128, 131; C-63, 95, 96; MP-S; MP-95-4, 99-1, 99-6, 00-2, 02-4, 05-5; PI-23, 26, 59, 62; CUP-1 (see "Other Pubs")
- GEOLOGIC HAZARDS, STATEWIDE: B-127; M-110, 111, 133, 149, 193DM; SS-80; MP-03-6, 05-6, 05-9; PI-48; RI-248; AIPG-1
- GEOTHERMAL: B-121, 123, 129DF; M-54 & 55C; M-68; SS-63, 67, 81; C-97; MP-91-4; PI-4, 32; RI-185, 252; OFR-189, 311, 397; UGA-23
- GOLD: B-114; B-125; M-140; C-63; MP-87-8; MP-91-2; MP-92-3; MP-93-5; MP-95-4; PI-23, 26, 50, 67, 68; OFR-161, 207; CR-91-5; CR-91-13; UGA-7, 13, 15
- GREAT SALT LAKE: B-116; B-126; WRB-25; M-57, 73, 110, 111,

- 127; MP-J; MP-88-2, 89-3, 92-3, 00-1; PI-8, 16, 39, 51, 55, 86; RI-200, 211; OFR-87DF, 112, 200; CR-93-5, 95-2; DNR SP-1
- GREEN RIVER FM/Bluebell field: SS-106; MP-96-2; MP-02-1, MP-04-2; OFR-407, 411, 430
- GROUND WATER: B-129DF; WRB-27, 28; M-54C, 55C, 110, 174, 175, 176; SS-86, 100, 101, 102, 103, 108, 109, 113, 117; C-87, C-99, C-101, C-102; MP-02-8, 02-10, 03-1, 03-3, 03-5, 04-1, 04-4, 05-1, 05-7, 06-1; RI-147, 187, 229, 230, 235, 237, 238, 239, 240, 243, 245, 246, 247253, 254; OFR-82, 316DF, 360, 419, 447, 448; CR-92-6, 95-4
- INDUSTRIAL MINERALS (non-metals, gravel, building stone, fluorite, etc.): B-115, 116, 124, 129DF, 132; M-54-D, 55-D, 71, 73; SS-53, 57, 84, 86, 116; C-82, 84, 87, 91, 98; MP-87-4, 93-5, 95-4, 01-2; PI-5, 8, 12, 14, 17, 20, 39, 51, 60, 61, 67, 68; RI-200, 209, 211, 221; OFR-87, 153, 161, 169, 183, 184, 185, 210, 316, 369; CR-91-6; CR-91-7; CR-91-9; CR-92-4; UGA-18; all 7½-minute quadrangle maps cover industrial minerals in the area
- LANDSLIDES/FLOODS: B-126; M-111; M-133; SS-64, 95, 104, 105; C-92; MP-88-3; MP-89-2; MP89-4, 05-4, 05-9; PI-53, 58, 69, 70, 74; RI-188, 195, 197, 213, 214, 217, 223, 232, 234; OFR-127, 149, 151, 211, 319, 340, 373, 410, 448; CR-91-3; CR-91-11; CR-93-3; CR-95-1, 95-2, 95-3, 95-4; most 7½-minute quadrangle maps delineate landslide areas; a series of landslide maps at 1:100,000 is available in the Open-File Series covering all of Utah ask Bookstore personnel
- LIQUEFACTION: SS-95, 104; PI-24, 25, 27, 28, 79, 80; OFR-433
- MINERAL RESOURCE COMPILATIONS: B-115; B-124; B-125, 129DF, 132; M-54 & 55D, 226DM; SS-116; C-93, 98; MP-89-3; PI-5; PI-7; RI-117; RI-200; RI-221; OFR-153; OFR-153DF; OFR-183DF; OFR-184DF; OFR-185DF; OFR-210; OFR-405
- MINING DISTRICTS (AND MINING): B-114, 132; M-215DM; SS-57; SS-61; SS-69; MP-91-2, MP-95-4, MP-05-5; PI-12, 33, 57, 61, 67, 68; OFR-166, 207, 325, 468
- NATIONAL AND STATE PARKS IN UTAH; B-122; B-124; M-74; M-87; M-127; M-178, M-180; SS-99; C-93, 95, 96, 100; MP-E; MP-Q; MP-S; MP-88-2; PI-13; PI-49, PI-56, PI-64, 65, 82; OFR-313, 386, 387, 393, 394, 395, 396; UGA 28, 29
- NON-TECHNICAL PUBLICATIONS (Teachers, non-geologists): M-A1; M-20, 43, 74, 87; C-89; MP-E, J, Q, S; MP-87-1; MP-87-2; MP-87-4; MP-87-6, 87-8, 88-2, 89-3, 92-1, 95-4, 99-6, 05-5; all the Public Info Series; OFR-112, 181, 211; AIPG-1; CUP-1 (see "Other Pubs")
- OIL AND GAS: B-119, 124, 129DF, 132; M-54D; M-55D; M-61; M-68, M-203DM; SS-86; SS-106; C-83, 84, 86, 87, 90DF, 93; MP-91-6, 93-8, 96-2, 97-4, 04-2; PI-22, 31, 71; RI-221, 241; OFR-150, 156, 160, 191, 192, 214, 232, 307, 316DF, 317, 320, 321, 326DF, 327DF, 330, 331, 336, 358, 389, 390, 391, 407, 411, 412, 413, 420, 421, 429, 430, 458, 459, 460, 461; CR-91-12, 92-2DF, 92-3, 92-5, 93-6; UGA-10, 11, 12, 18, 21, 22, 25; AGI-3; ATLAS-1 (see "Other Pubs")
- PALEOECOLOGY/PALEONTOLOGY: B-109, 116, 128, 130, 131; SS-99; C-95, 96; MP-S, MP-99-1, MP-00-2, 02-4; PI-26; UGA-26
- QUATERNARY STUDIES: B-122; B-126, 130, 134; M-124, 150, 161, 156, 170, 172, 193DM; SS-61, 62, 64, 70, 73, 75, 76, 77, 78, 79, 80, 82, 83, 88, 92, 93, 98; MP-88-1; MP-89-6, 89-7, 91-3, 02-7, 02-9, 03-4; RI-233; OFR-

186, 264DF, 296; CR-91-10; CR-93-4

- RADON: M-149; SS-85; SS-87; SS-89; SS-90; SS-91; SS-94; C-81; PI-18, 21, 35, 36, 43, 44, 45, 46, 47; OFR-175DF; OFR-211D
- ST. GEORGE AREA: WRB-26; M-99; SS-87; C-88; PI-35; OFR-323
- STRATIGRAPHIC STUDIES: B-47, 89, 97; SS-27, 59, 61, 62, 64, 70, 73, 77, 79, 97, 131; MP-S; MP-88-1; MP-89-5, 90-2, 91-5, 91-6, 91-7, 92-3, 93-1, 93-2, 93-8, 97-4, 99-1; OFR-169, 191, 192, 193, 214, 331, 413; CR-91-12; CR-92-3; CR-93-1; CR-93-5; BYU-7 (see "Other Pubs")
- TAR SAND/OIL SHALE: B-132; M-47, 50; SS-65; RI-194; RI-196; RI-201; RI-210, 225; OFR-100, 101, 335
- TEACHERS (materials useful for teaching): OFR-112; OFR-150; OFR-211; all the Public Information Series; MP-87-1, -2, -4, -6; AIPG-1 (see "Other Pubs"); the Geologic Hazards & Statewide maps
- UINTA BASIN: M-50; SS-59, 65; MP-92-3, 96-2; RI-201; OFR-214, 330, 335, 430; CR-92-4; ATLAS-1; UGA-12, 20
- URANIUM: B-113; B-124; M-68, M-215DM; MP-93-3; OFR-188, 462
- WASATCH FRONT URBAN AREA: see county index for Davis, Salt Lake, Utah, and Weber counties, and Map series 53, 54, 55